INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES (VISTAS)
(Deemed to be University Estd. u/s 3 of the UGC Act, 1956)
PALLAVARAM, THALAMBUR, PERIYAPALAYAM-CHENNAI
ACCREDITED BY NAAC WITH A++ GRADE
INSTITUTION WITH UGC 12B STATUS

NIRF 2026

OVERALL

PATENT PUBLISHED & GRANTED 2022-2024

Office of the Controller General of Patents, Designs & Trade Marks
Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
Government of India

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(http://ipindia.nic.in/index.htm)

Application Details	
APPLICATION NUMBER	202041001190
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	10/01/2020
APPLICANT NAME	**VELS INSTITUTE OF SCIENCE TECHNOLOGY & ADVANCED STUDIES (VISTAS)**
TITLE OF INVENTION	CONTROLLABLE SYNTHESIS OF DEFECTIVE HARD CARBON METERIAL FROM BORASSUS FLABELLIFER MALE INFLORESCENC
FIELD OF INVENTION	ELECTRICAL
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	registrar@velsuniv.ac.in
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	09/11/2020
PUBLICATION DATE (U/S 11A)	13/11/2020

Application Status	
APPLICATION STATUS	**FER Issued, Reply not Filed**

View Documents

➡ Filed ➡ RQ Filed ➡ Published ➡ Under Examination

➡ Disposed

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CHALLAN : TR-5
DOCKET NO:52316

Date/Time : 17/06/2020

To,
Agent Number:

VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES (VISTAS)
VELAN NAGAR, P V VAITHIYALINGAM ROAD, PALLAVARAM, CHENNAI, TAMILNADU-600117, INDIA.
patent.vels@eattributes.com

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	19015	ORDINARY APPLICATION	202041025456	A PROCESS FOR BIODIESEL CONVERSION FROM WASTE CHICKEN FAT OIL VIA TRANSESTERIFICATION REACTION	8800
2		E-101/7491/2020-CHE	202041025456	Correspondence	0
3		E-2/1592/2020-CHE	202041025456	Form2	0
4		E-3/18444/2020-CHE	202041025456	Form3	0
5		E-5/1382/2020-CHE	202041025456	Form5	0
6	19015	E-12/1269/2020-CHE	202041025456	Form9	13750
7	19015	R20204017957	202041025456	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	501694	15/06/2020	44550

Note: This is electronically generated receipt hence no signature required.

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CHALLAN : TR-5
DOCKET NO:52279

Date/Time : 17/06/2020

To,
Agent Number:

VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES (VISTAS)
VELAN NAGAR, P V VAITHIYALINGAM ROAD, PALLAVARAM, CHENNAI, TAMILNADU-600117, INDIA.
patent.vels@eattributes.com

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	19005	ORDINARY APPLICATION	202041025443	PIN NUMBER THEFT RECOGNITION USING SIXTH SENSE	8800
2		E-101/7456/2020-CHE	202041025443	Correspondence	0
3		E-2/1584/2020-CHE	202041025443	Form2	0
4		E-3/18433/2020-CHE	202041025443	Form3	0
5		E-5/1375/2020-CHE	202041025443	Form5	0
6	19005	E-12/1263/2020-CHE	202041025443	Form9	13750
7	19005	R20204017950	202041025443	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	501695	15/06/2020	44550

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CHALLAN : TR-5
DOCKET NO:52238

Date/Time : 17/06/2020

To,
Agent Number:

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VELAN NAGAR, PV VAITHIYALINGAM ROAD, PALLAVARAM, CHENNAI, TAMIL NADU-600 117, INDIA.
patent.vels@eattributes.com

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	18984	ORDINARY APPLICATION	202041025419	SYNTHESIS OF 2-CHLORO-4'-METHOXY BENZILIC ACID AND ITS BIOLOGICAL ACTIVITY	8800
2		E-101/7450/2020-CHE	202041025419	Correspondence	0
3		E-2/1579/2020-CHE	202041025419	Form2	0
4		E-3/18420/2020-CHE	202041025419	Form3	0
5		E-5/1370/2020-CHE	202041025419	Form5	0
6	18984	E-12/1258/2020-CHE	202041025419	Form9	13750
7	18984	R20204017932	202041025419	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	501696	15/06/2020	44550

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CHALLAN : TR-5
DOCKET NO:52342

Date/Time : 17/06/2020

To,
Agent Number:

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VELAN NAGAR, P V VAITHIYALINGAM ROAD, PALLAVARAM, CHENNAI, TAMILNADU-600117, INDIA.
patent.vels@eattributes.com

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	19028	ORDINARY APPLICATION	202041025466	UNFOLDING TYPE OF GASTRO RETENTIVE FILM OF ANTI-EPILEPTIC AGENT: FORMULATION AND OPTIMIZATION	8800
2		E-101/7495/2020-CHE	202041025466	Correspondence	0
3		E-2/1596/2020-CHE	202041025466	Form2	0
4		E-3/18455/2020-CHE	202041025466	Form3	0
5		E-5/1386/2020-CHE	202041025466	Form5	0
6	19028	E-12/1274/2020-CHE	202041025466	Form9	13750
7	19028	R20204017963	202041025466	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	501697	15/06/2020	44550

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CHALLAN : TR-5
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Date/Time : 17/06/2020

To,
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VELAN NAGAR, PV VAITHIYALINGAM ROAD, PALLAVARAM, CHENNAI, TAMIL NADU-600 117, INDIA.
patent.vels@eattributes.com

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	19018	ORDINARY APPLICATION	202041025459	SYNTHESIS, CHARACTERIZATION AND BIOLOGICAL EVALUATION OF SOME NEW QUINOLINYL CHALCONE DERIVATIVES	8800
2		E-101/7492/2020-CHE	202041025459	Correspondence	0
3		E-2/1593/2020-CHE	202041025459	Form2	0
4		E-3/18445/2020-CHE	202041025459	Form3	0
5		E-5/1383/2020-CHE	202041025459	Form5	0
6	19018	E-12/1270/2020-CHE	202041025459	Form9	13750
7	19018	R20204017959	202041025459	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	501685	15/06/2020	44550

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CHALLAN : TR-5
DOCKET NO:52231

Date/Time : 17/06/2020

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patent.vels@eattributes.com

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	18981	ORDINARY APPLICATION	202041025416	DEVELOPMENT OF DRUG DELIVERY SYSTEM FOR HELMINTHIASIS	8800
2		E-101/7447/2020-CHE	202041025416	Correspondence	0
3		E-2/1578/2020-CHE	202041025416	Form2	0
4		E-3/18419/2020-CHE	202041025416	Form3	0
5		E-5/1369/2020-CHE	202041025416	Form5	0
6	18981	E-12/1256/2020-CHE	202041025416	Form9	13750
7	18981	R20204017930	202041025416	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	501699	15/06/2020	44550

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CHALLAN : TR-5
DOCKET NO:52226

Date/Time : 17/06/2020

To,
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patent.vels@eattributes.com

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	18977	ORDINARY APPLICATION	202041025413	EMERGENCY MEDICAL KIT PROVIDING ROBOT	8800
2		E-101/7445/2020-CHE	202041025413	Correspondence	0
3		E-2/1576/2020-CHE	202041025413	Form2	0
4		E-3/18417/2020-CHE	202041025413	Form3	0
5		E-5/1367/2020-CHE	202041025413	Form5	0
6	18977	E-12/1254/2020-CHE	202041025413	Form9	13750
7	18977	R20204017926	202041025413	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	501681	15/06/2020	44550

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E-mail : Chennai-patent@nic.in
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CHALLAN : TR-5
DOCKET NO:52311

Date/Time : 17/06/2020

To,
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VELAN NAGAR, PV VAITHIYALINGAM ROAD, PALLAVARAM, CHENNAI, TAMIL NADU-600 117, INDIA.
patent.vels@eattributes.com

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	19014	ORDINARY APPLICATION	202041025455	FINGER VEIN AUTHENTICATION USING LDC BASED ON K-MEANS CLASSIFICATION	8800
2		E-101/7487/2020-CHE	202041025455	Correspondence	0
3		E-2/1591/2020-CHE	202041025455	Form2	0
4		E-3/18441/2020-CHE	202041025455	Form3	0
5		E-5/1381/2020-CHE	202041025455	Form5	0
6	19014	E-12/1268/2020-CHE	202041025455	Form9	13750
7	19014	R20204017956	202041025455	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	501690	15/06/2020	44550

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Web Site : www.ipindia.gov.in

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CHALLAN : TR-5
DOCKET NO:52329

Date/Time : 17/06/2020

To,
Agent Number:

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VELAN NAGAR, P V VAITHIYALINGAM ROAD, PALLAVARAM, CHENNAI, TAMILNADU-600117, INDIA.
patent.vels@eattributes.com

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	19021	ORDINARY APPLICATION	202041025461	INTEGRATION OF DIGITAL TDS METER IN DOMESTIC RO WATER PURIFIER	8800
2		E-101/7493/2020-CHE	202041025461	Correspondence	0
3		E-2/1594/2020-CHE	202041025461	Form2	0
4		E-3/18446/2020-CHE	202041025461	Form3	0
5		E-5/1384/2020-CHE	202041025461	Form5	0
6	19021	E-12/1272/2020-CHE	202041025461	Form9	13750
7	19021	R20204017960	202041025461	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	501680	15/06/2020	44550

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CHALLAN : TR-5
DOCKET NO:52224

Date/Time : 17/06/2020

To,
Agent Number:

VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES (VISTAS)
VELAN NAGAR, P V VAITHIYALINGAM ROAD, PALLAVARAM, CHENNAI, TAMILNADU-600117, INDIA.
patent.vels@eattributes.com

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	18978	ORDINARY APPLICATION	202041025414	MEDIATING ROLE OF BRAND AWARENESS TOWARDS CONSUMER PRODUCT KNOWLEDGE AND CONSUMER BUYING BEHAVIOUR	8800
2		E-101/7446/2020-CHE	202041025414	Correspondence	0
3		E-2/1577/2020-CHE	202041025414	Form2	0
4		E-3/18418/2020-CHE	202041025414	Form3	0
5		E-5/1368/2020-CHE	202041025414	Form5	0
6	18978	E-12/1255/2020-CHE	202041025414	Form9	13750
7	18978	R20204017927	202041025414	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	501691	15/06/2020	44550

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CHALLAN : TR-5
DOCKET NO:52247

Date/Time : 17/06/2020

To,
Agent Number:
VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES (VISTAS)
VELAN NAGAR, PV VAITHIYALINGAM ROAD, PALLAVARAM, CHENNAI, TAMIL NADU-600 117, INDIA.
patent.vels@eattributes.com

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	18991	ORDINARY APPLICATION	202041025425	MUSA BANDAID TO HEAL BURN WOUNDS	8800
2		E-101/7452/2020-CHE	202041025425	Correspondence	0
3		E-2/1581/2020-CHE	202041025425	Form2	0
4		E-3/18422/2020-CHE	202041025425	Form3	0
5		E-5/1372/2020-CHE	202041025425	Form5	0
6	18991	E-12/1260/2020-CHE	202041025425	Form9	13750
7	18991	R20204017940	202041025425	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	501682	15/06/2020	44550

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E-mail : Chennai-patent@nic.in
Web Site : www.ipindia.gov.in

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CHALLAN : TR-5
DOCKET NO:52289

Date/Time : 17/06/2020

To,
Agent Number:

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VELAN NAGAR, P V VAITHIYALINGAM ROAD, PALLAVARAM, CHENNAI, TAMILNADU-600117, INDIA.
patent.vels@eattributes.com

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	19008	ORDINARY APPLICATION	202041025446	PERYLENE-DI IMIDES ANALOGUES AS POTENT APOPTOSIS INDUCER AND EFFICACIOUS ANTICANCER AGENT	8800
2		E-101/7464/2020-CHE	202041025446	Correspondence	0
3		E-2/1586/2020-CHE	202041025446	Form2	0
4		E-3/18435/2020-CHE	202041025446	Form3	0
5		E-5/1377/2020-CHE	202041025446	Form5	0
6	19008	E-12/1264/2020-CHE	202041025446	Form9	13750
7	19008	R20204017951	202041025446	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	501686	15/06/2020	44550

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CHALLAN : TR-5
DOCKET NO:52215

Date/Time : 17/06/2020

To,
Agent Number:
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VELAN NAGAR, P V VAITHIYALINGAM ROAD, PALLAVARAM, CHENNAI, TAMILNADU-600117, INDIA.
patent.vels@eattributes.com

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	18975	ORDINARY APPLICATION	202041025411	PULSE RATE MEASUREMENT USING ANDROID SMARTPHONE	8800
2		E-101/7440/2020-CHE	202041025411	Correspondence	0
3		E-2/1575/2020-CHE	202041025411	Form2	0
4		E-3/18414/2020-CHE	202041025411	Form3	0
5		E-5/1366/2020-CHE	202041025411	Form5	0
6	18975	E-12/1253/2020-CHE	202041025411	Form9	13750
7	18975	R20204017925	202041025411	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	501687	15/06/2020	44550

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CHALLAN : TR-5
DOCKET NO:52257

Date/Time : 17/06/2020

To,
Agent Number:

VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES (VISTAS)
VELAN NAGAR, P V VAITHIYALINGAM ROAD, PALLAVARAM, CHENNAI, TAMILNADU-600117, INDIA.
patent.vels@eattributes.com

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	18998	ORDINARY APPLICATION	202041025429	REVERSAL OF DIABETIC RETINOPATHY IN MODIFIED PROLIFERATIVE DIABETIC RETINOPATHY MODEL IN RATS USING	8800
2		E-101/7453/2020-CHE	202041025429	Correspondence	0
3		E-2/1582/2020-CHE	202041025429	Form2	0
4		E-3/18424/2020-CHE	202041025429	Form3	0
5		E-5/1373/2020-CHE	202041025429	Form5	0
6	18998	E-12/1261/2020-CHE	202041025429	Form9	13750
7	18998	R20204017943	202041025429	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	501683	15/06/2020	44550

Note: This is electronically generated receipt hence no signature required.

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CHALLAN : TR-5
DOCKET NO:52301

Date/Time : 17/06/2020

To,
Agent Number:
VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES (VISTAS)
VELAN NAGAR, PV VAITHIYALINGAM ROAD, PALLAVARAM, CHENNAI, TAMIL NADU-600 117, INDIA.
patent.vels@eattributes.com

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	19012	ORDINARY APPLICATION	202041025451	SMART VEHICLE TRACKING AND ACCIDENT DETECTION SYSTEM	8800
2		E-101/7479/2020-CHE	202041025451	Correspondence	0
3		E-2/1589/2020-CHE	202041025451	Form2	0
4		E-3/18439/2020-CHE	202041025451	Form3	0
5		E-5/1379/2020-CHE	202041025451	Form5	0
6	19012	E-12/1266/2020-CHE	202041025451	Form9	13750
7	19012	R20204017954	202041025451	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	501688	15/06/2020	44550

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CHALLAN : TR-5
DOCKET NO:52296

Date/Time : 17/06/2020

To,
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VELAN NAGAR, P V VAITHIYALINGAM ROAD, PALLAVARAM, CHENNAI, TAMILNADU-600117, INDIA.
patent.vels@eattributes.com

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	19011	ORDINARY APPLICATION	202041025450	SYNTHESIS OF ZINC OXIDE NANOPARTICLE USING COCOS NUCIFERA MALE FLOWER EXTRACT AND ANALYSIS THEIR	8800
2		E-101/7477/2020-CHE	202041025450	Correspondence	0
3		E-2/1588/2020-CHE	202041025450	Form2	0
4		E-3/18438/2020-CHE	202041025450	Form3	0
5		E-5/1378/2020-CHE	202041025450	Form5	0
6	19011	E-12/1265/2020-CHE	202041025450	Form9	13750
7	19011	R20204017953	202041025450	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	501693	15/06/2020	44550

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CHALLAN : TR-5
DOCKET NO:52306

Date/Time : 17/06/2020

To,
Agent Number:

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VELAN NAGAR, P V VAITHIYALINGAM ROAD, PALLAVARAM, CHENNAI, TAMILNADU-600117, INDIA.
patent.vels@eattributes.com

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	19013	ORDINARY APPLICATION	202041025454	TREATMENT OF LAKE WATER BASED ON BIOCHAR AND ACTIVATED CARBON FILTER SYSTEM	8800
2		E-101/7484/2020-CHE	202041025454	Correspondence	0
3		E-2/1590/2020-CHE	202041025454	Form2	0
4		E-3/18440/2020-CHE	202041025454	Form3	0
5		E-5/1380/2020-CHE	202041025454	Form5	0
6	19013	E-12/1267/2020-CHE	202041025454	Form9	13750
7	19013	R20204017955	202041025454	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	501689	15/06/2020	44550

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CHALLAN : TR-5
DOCKET NO:52245

Date/Time : 17/06/2020

To,
Agent Number:

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VELAN NAGAR, P V VAITHIYALINGAM ROAD, PALLAVARAM, CHENNAI, TAMILNADU-600117, INDIA.
patent.vels@eattributes.com

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	18990	ORDINARY APPLICATION	202041025424	ZN METAL BASED ANTICANCER DRUG	8800
2		E-101/7451/2020-CHE	202041025424	Correspondence	0
3		E-2/1580/2020-CHE	202041025424	Form2	0
4		E-3/18421/2020-CHE	202041025424	Form3	0
5		E-5/1371/2020-CHE	202041025424	Form5	0
6	18990	E-12/1259/2020-CHE	202041025424	Form9	13750
7	18990	R20204017939	202041025424	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	501692	15/06/2020	44550

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CHALLAN : TR-5
DOCKET NO:52337

Date/Time : 17/06/2020

To,
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VELAN NAGAR, PV VAITHIYALINGAM ROAD, PALLAVARAM, CHENNAI, TAMIL NADU-600 117, INDIA.
patent.vels@eattributes.com

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	19024	ORDINARY APPLICATION	202041025464	MOLECULAR DOCKING STUDIES FOR ANTITUBERCULAR ACTIVITY, SYNTHESIS, CHARACTERISATION AND ANTIMICROBIAL	8800
2		E-101/7494/2020-CHE	202041025464	Correspondence	0
3		E-2/1595/2020-CHE	202041025464	Form2	0
4		E-3/18452/2020-CHE	202041025464	Form3	0
5		E-5/1385/2020-CHE	202041025464	Form5	0
6	19024	E-12/1273/2020-CHE	202041025464	Form9	13750
7	19024	R20204017962	202041025464	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	501684	15/06/2020	44550

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CHALLAN : TR-5
DOCKET NO:52351

Date/Time : 17/06/2020

To,
Agent Number:

VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES (VISTAS)
VELAN NAGAR, PV VAITHIYALINGAM ROAD, PALLAVARAM, CHENNAI, TAMIL NADU-600 117, INDIA.
patent.vels@eattributes.com

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	19032	ORDINARY APPLICATION	202041025467	WEBIFY: A COST-EFFECTIVE SYSTEM FOR CONTROLLING OF HOME APPLIANCES	8800
2		E-101/7496/2020-CHE	202041025467	Correspondence	0
3		E-2/1597/2020-CHE	202041025467	Form2	0
4		E-3/18456/2020-CHE	202041025467	Form3	0
5		E-5/1387/2020-CHE	202041025467	Form5	0
6	19032	E-12/1275/2020-CHE	202041025467	Form9	13750
7	19032	R20204017964	202041025467	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	501698	15/06/2020	44550

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CHALLAN : TR-5
DOCKET NO:61080

Date/Time : 15/07/2020

Agent Number:

To,
E. SUSITHRA
D/O, ETHIRAJ, NEW NO 4/3, OLD NO 21/3, BAJANAIKOIL STREET, NEAR MUNIAPPA CHETTY STREET, SEMBIUM, PERAMBUR, CHENNAI - 600011. dresusithra@gmail.com

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	22591	ORDINARY APPLICATION	202041030088	SYNTHESIS OF MAGNETIC NANOPARTICLES AND ENCAPSULATION OF BERBERINE WITH ENHANCED IN-VITRO	1750
2		E-101/8262/2020-CHE	202041030088	Correspondence	0
3		E-2/1897/2020-CHE	202041030088	Form2	0
4		E-3/22266/2020-CHE	202041030088	Form3	0
5		E-5/1742/2020-CHE	202041030088	Form5	0
Total :					1750

Received a sum of Rs. 1750 (Rupees One Thousand Seven Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	Karur Vysya Bank	960267	02/07/2020	1750

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Patent Search

Invention Title	SUBSTITUTED MANNICH BASES OF BENZOTRIAZOLE DERIVATIVES AS ANTICANCER AGENTS
Publication Number	04/2021
Publication Date	22/01/2021
Publication Type	INA
Application Number	202041030091
Application Filing Date	15/07/2020
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	CHEMICAL
Classification (IPC)	C07D0249180000, C08G0059620000, C23F0011140000, C07D0249200000, C07D0401120000

Inventor

Name	Address	Country	Nat
E. SUSITHRA	D/O K. ETHIRAJ, NEW NO: 4/3, OLD NO: 21/3, BAJANAIKOIL STREET, NEAR MUNIAPPA CHETTY STREET, SEMBIUM, PERAMBUR, CHENNAI - 600011, TAMILNADU, INDIA.	India	indi
MANDAVA V. BASAVESWARA RAO	FLAT. NO.403, SRI LAKSHMI SAI HOMES, NETAJI STREET, PATAMATA LANKA, BENZ CIRCLE, VIJAYAWADA, ANDHRA PRADESH, INDIA-520 010.	India	indi
RAJASEKHAR CHEKKARA	S/O RADHAKRISHNA CHEKKARA, CHEKKARAVANDLAPALLI (GRAMAM) BANDAKRINDHA PALLI (POST), PILERU, CHITOOR, ANDHRA PRADESH, INDIA-517 214	India	indi
SHOBHA RANI TENKAYALA	HEAD, DEPT OF CHEMISTRY SCHOOL OF HERBAL STUDIES & NATURO SCIENCES, DRAVIDIAN UNIVERSITY, SRINIVASAVANAM, KUPPAM-517 426, KUPPAM, ANDHRA PRADESH, INDIA-517 426	India	indi

Applicant

Name	Address	Country	Nat
E. SUSITHRA	D/O K. ETHIRAJ, NEW NO: 4/3, OLD NO: 21/3, BAJANAIKOIL STREET, NEAR MUNIAPPA CHETTY STREET, SEMBIUM, PERAMBUR, CHENNAI - 600011, TAMILNADU, INDIA.	India	indi

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CHALLAN : TR-5
DOCKET NO:63664

Date/Time : 23/07/2020

To,
Agent Number:
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VELAN NAGAR, PV VAITHIYALINGAM ROAD, PALLAVARAM, CHENNAI, TAMIL NADU-600 117, INDIA.
patent.vels@eattributes.com

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	23652	ORDINARY APPLICATION	202041031464	LOW-COST 2D PLOTTER COMPUTER NUMERIC CONTROL (CNC) MACHINE USING ARDUINO	8800
2		E-101/8430/2020-CHE	202041031464	Correspondence	0
3		E-2/1966/2020-CHE	202041031464	Form2	0
4		E-3/23070/2020-CHE	202041031464	Form3	0
5		E-5/1804/2020-CHE	202041031464	Form5	0
6	23652	E-12/1741/2020-CHE	202041031464	Form9	13750
7	23652	R20204022194	202041031464	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	501713	15/06/2020	44550

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CHALLAN : TR-5
DOCKET NO:63665

Date/Time : 23/07/2020

To,
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patent.vels@eattributes.com

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	23654	ORDINARY APPLICATION	202041031465	MIND-BODY SYNERGY THERAPY (MST)	8800
2		E-101/8431/2020-CHE	202041031465	Correspondence	0
3		E-2/1967/2020-CHE	202041031465	Form2	0
4		E-3/23071/2020-CHE	202041031465	Form3	0
5		E-5/1805/2020-CHE	202041031465	Form5	0
6	23654	E-12/1742/2020-CHE	202041031465	Form9	13750
7	23654	R20204022195	202041031465	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	501714	15/06/2020	44550

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E-mail : Chennai-patent@nic.in
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CHALLAN : TR-5
DOCKET NO:63670

Date/Time : 23/07/2020

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patent.vels@eattributes.com

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	23656	ORDINARY APPLICATION	202041031467	DETERMINATION OF CARBONYL AND ORGANOPHOSPHOROUS PESTICIDES USING NEW GENERATION MATERIALS	8800
2		E-101/8433/2020-CHE	202041031467	Correspondence	0
3		E-2/1969/2020-CHE	202041031467	Form2	0
4		E-3/23073/2020-CHE	202041031467	Form3	0
5		E-5/1807/2020-CHE	202041031467	Form5	0
6	23656	E-12/1744/2020-CHE	202041031467	Form9	13750
7	23656	R20204022197	202041031467	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	501715	15/06/2020	44550

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E-mail : Chennai-patent@nic.in
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CHALLAN : TR-5
DOCKET NO:63671

Date/Time : 23/07/2020

To,
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VELAN NAGAR, P V VAITHIYALINGAM RD, PALLAVARAM, CHENNAI, TAMILNADU-600117, INDIA.
patent.vels@eattributes.com

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	23659	ORDINARY APPLICATION	202041031469	TASTE MASKING ANTI-EPILEPTIC ION-EXCHANGE RESINATES IN SOLID-STATE: FORMULATION OF LIQUID SUSPENSION	8800
2		E-101/8435/2020-CHE	202041031469	Correspondence	0
3		E-2/1971/2020-CHE	202041031469	Form2	0
4		E-3/23076/2020-CHE	202041031469	Form3	0
5		E-5/1809/2020-CHE	202041031469	Form5	0
6	23659	E-12/1746/2020-CHE	202041031469	Form9	13750
7	23659	R20204022200	202041031469	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	501716	15/06/2020	44550

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Tel No. (091)(044) 22502081-84 Fax No. 044 22502066
E-mail : Chennai-patent@nic.in
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CHALLAN : TR-5
DOCKET NO:63672

Date/Time : 23/07/2020

To,
Agent Number:

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VELAN NAGAR, PV VAITHIYALINGAM ROAD, PALLAVARAM, CHENNAI, TAMIL NADU-600 117, INDIA.
patent.vels@eattributes.com

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	23658	ORDINARY APPLICATION	202041031468	AUTOMATIC SYSTEM FOR GRADING MANGOES	8800
2		E-101/8434/2020-CHE	202041031468	Correspondence	0
3		E-2/1970/2020-CHE	202041031468	Form2	0
4		E-3/23075/2020-CHE	202041031468	Form3	0
5		E-5/1808/2020-CHE	202041031468	Form5	0
6	23658	E-12/1745/2020-CHE	202041031468	Form9	13750
7	23658	R20204022199	202041031468	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	501717	15/06/2020	44550

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CHALLAN : TR-5
DOCKET NO:64794

Date/Time : 27/07/2020

To,
Agent Number:
VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES (VISTAS)
VELAN NAGAR, PV VAITHIYALINGAM ROAD, PALLAVARAM, CHENNAI, TAMIL NADU-600 117, INDIA.
patent.vels@eattributes.com

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	24152	ORDINARY APPLICATION	202041032043	COVID-19 EARLY WARNING SYSTEM (CO-EWS) FOR SENIOR CITIZENS AT OLD AGE	8800
2		E-101/8520/2020-CHE	202041032043	Correspondence	0
3		E-2/2017/2020-CHE	202041032043	Form2	0
4		E-3/23366/2020-CHE	202041032043	Form3	0
5		E-5/1853/2020-CHE	202041032043	Form5	0
6	24152	E-12/1789/2020-CHE	202041032043	Form9	13750
7	24152	R20204022590	202041032043	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	500221	18/07/2020	44550

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CHALLAN : TR-5
DOCKET NO:64802

Date/Time : 27/07/2020

To,
Agent Number:

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VELAN NAGAR, P V VAITHIYALINGAM RD, PALLAVARAM, CHENNAI, TAMILNADU-600117, INDIA.
patent.vels@eattributes.com

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	24157	ORDINARY APPLICATION	202041032047	DESIGN OF AN AUTO COOLANT SMART HELMET WITH BIOMETRIC AUTHENTICATION THEREOF	8800
2		E-101/8523/2020-CHE	202041032047	Correspondence	0
3		E-2/2018/2020-CHE	202041032047	Form2	0
4		E-3/23367/2020-CHE	202041032047	Form3	0
5		E-5/1854/2020-CHE	202041032047	Form5	0
6	24157	E-12/1790/2020-CHE	202041032047	Form9	13750
7	24157	R20204022592	202041032047	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	500218	18/07/2020	44550

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CHALLAN : TR-5
DOCKET NO:64792

Date/Time : 27/07/2020

To,
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patent.vels@eattributes.com

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	24150	ORDINARY APPLICATION	202041032042	REAL TIME INTELLIGENT PARKING SYSTEM USING SENSOR	8800
2		E-101/8519/2020-CHE	202041032042	Correspondence	0
3		E-2/2016/2020-CHE	202041032042	Form2	0
4		E-3/23365/2020-CHE	202041032042	Form3	0
5		E-5/1852/2020-CHE	202041032042	Form5	0
6	24150	E-12/1788/2020-CHE	202041032042	Form9	13750
7	24150	R20204022589	202041032042	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	500217	18/07/2020	44550

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CHALLAN : TR-5
DOCKET NO:64775

Date/Time : 27/07/2020

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patent.vels@eattributes.com

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	24142	ORDINARY APPLICATION	202041032039	SPAM REDUCTION IN SMARTPHONES TO RESIST IT FROM INTRUDERS	8800
2		E-101/8493/2020-CHE	202041032039	Correspondence	0
3		E-2/2013/2020-CHE	202041032039	Form2	0
4		E-3/23360/2020-CHE	202041032039	Form3	0
5		E-5/1849/2020-CHE	202041032039	Form5	0
6	24142	E-12/1786/2020-CHE	202041032039	Form9	13750
7	24142	R20204022580	202041032039	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	500220	18/07/2020	44550

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CHALLAN : TR-5
DOCKET NO:64785

Date/Time : 27/07/2020

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patent.vels@eattributes.com

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	24146	ORDINARY APPLICATION	202041032041	WEARABLE BAND FOR AUTOMATIC DETECTION OF BODY TEMPERATURE ABNORMALITY	8800
2		E-101/8495/2020-CHE	202041032041	Correspondence	0
3		E-2/2015/2020-CHE	202041032041	Form2	0
4		E-3/23363/2020-CHE	202041032041	Form3	0
5		E-5/1851/2020-CHE	202041032041	Form5	0
6	24146	E-12/1787/2020-CHE	202041032041	Form9	13750
7	24146	R20204022588	202041032041	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	500219	18/07/2020	44550

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CHALLAN : TR-5
DOCKET NO:70780

Date/Time : 14/08/2020

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patent.vels@eattributes.com

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	26623	ORDINARY APPLICATION	202041035014	AUTOMATED PHLEBOTOMY DEVICE	8800
2		E-101/8930/2020-CHE	202041035014	Correspondence	0
3		E-2/2205/2020-CHE	202041035014	Form2	0
4		E-3/24992/2020-CHE	202041035014	Form3	0
5		E-5/2054/2020-CHE	202041035014	Form5	0
6	26623	E-12/2014/2020-CHE	202041035014	Form9	13750
7	26623	R20204024646	202041035014	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	500205	18/07/2020	44550

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CHALLAN : TR-5
DOCKET NO:70774

Date/Time : 14/08/2020

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patent.vels@eattributes.com

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	26620	ORDINARY APPLICATION	202041035013	VISION CONTROLLER IN TELEVISION USING MOTION DETECTION	8800
2		E-101/8929/2020-CHE	202041035013	Correspondence	0
3		E-2/2204/2020-CHE	202041035013	Form2	0
4		E-3/24990/2020-CHE	202041035013	Form3	0
5		E-5/2053/2020-CHE	202041035013	Form5	0
6	26620	E-12/2013/2020-CHE	202041035013	Form9	13750
7	26620	R20204024642	202041035013	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	500203	18/07/2020	44550

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E-mail : Chennai-patent@nic.in
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CHALLAN : TR-5
DOCKET NO:70813

Date/Time : 14/08/2020

To,
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patent.vels@eattributes.com

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	26636	ORDINARY APPLICATION	202041035029	ROLE OF POLIO VIRUS ANTIGEN IN MODULATING THE BETA-CELL AUTOIMMUNITY IN TYPE 1 DIABETES MELLITUS	8800
2		E-101/8943/2020-CHE	202041035029	Correspondence	0
3		E-2/2209/2020-CHE	202041035029	Form2	0
4		E-3/24995/2020-CHE	202041035029	Form3	0
5		E-5/2057/2020-CHE	202041035029	Form5	0
6	26636	E-12/2018/2020-CHE	202041035029	Form9	13750
7	26636	R20204024659	202041035029	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	500234	24/07/2020	44550

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CHALLAN : TR-5
DOCKET NO:70796

Date/Time : 14/08/2020

To,
Agent Number:

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VELAN NAGAR, P V VAITHIYALINGAM RD, PALLAVARAM, CHENNAI, TAMILNADU-600117, INDIA.
patent.vels@eattributes.com

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	26629	ORDINARY APPLICATION	202041035023	INTEGRATED MULTI-PURPOSE FIELD SURVEILLANCE ROBOT FOR MILITARY USE	8800
2		E-101/8932/2020-CHE	202041035023	Correspondence	0
3		E-2/2207/2020-CHE	202041035023	Form2	0
4		E-3/24994/2020-CHE	202041035023	Form3	0
5		E-5/2056/2020-CHE	202041035023	Form5	0
6	26629	E-12/2016/2020-CHE	202041035023	Form9	13750
7	26629	R20204024652	202041035023	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	500235	24/07/2020	44550

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CHALLAN : TR-5
DOCKET NO:70787

Date/Time : 14/08/2020

To,
Agent Number:

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VELAN NAGAR, P V VAITHIYALINGAM RD, PALLAVARAM, CHENNAI, TAMILNADU-600117, INDIA.
patent.vels@eattributes.com

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	26626	ORDINARY APPLICATION	202041035022	DEVELOPMENT AND CHARACTERIZATION OF SQUALENE LOADED TOPICAL EMULGEL SCAFFOLD: CELLULAR PROLIFERATIVE	8800
2		E-101/8931/2020-CHE	202041035022	Correspondence	0
3		E-2/2206/2020-CHE	202041035022	Form2	0
4		E-3/24993/2020-CHE	202041035022	Form3	0
5		E-5/2055/2020-CHE	202041035022	Form5	0
6	26626	E-12/2015/2020-CHE	202041035022	Form9	13750
7	26626	R20204024649	202041035022	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	500204	18/07/2020	44550

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CHALLAN : TR-5
DOCKET NO:73143

Date/Time : 21/08/2020

To,
Agent Number:
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VELAN NAGAR, PV VAITHIYALINGAM ROAD, PALLAVARAM, CHENNAI, TAMIL NADU-600 117, INDIA.
patent.vels@eattributes.com

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	27525	ORDINARY APPLICATION	202041036035	MULTI-LAYERED GRAPHENE FROM MALUS DOMESTICA (APPLE) PEEL	8800
2		E-101/9196/2020-CHE	202041036035	Correspondence	0
3		E-2/2280/2020-CHE	202041036035	Form2	0
4		E-3/25853/2020-CHE	202041036035	Form3	0
5		E-5/2133/2020-CHE	202041036035	Form5	0
6	27525	E-12/2092/2020-CHE	202041036035	Form9	13750
7	27525	R20204025491	202041036035	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	500240	24/07/2020	44550

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CHALLAN : TR-5
DOCKET NO:73160

Date/Time : 21/08/2020

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patent.vels@eattributes.com

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	27531	ORDINARY APPLICATION	202041036042	GPS BASED INTELLIGENT TRAFFIC CONTROL SYSTEM (GIT-CS) DEVELOPMENT FOR AMBULANCE	8800
2		E-101/9202/2020-CHE	202041036042	Correspondence	0
3		E-2/2283/2020-CHE	202041036042	Form2	0
4		E-3/25857/2020-CHE	202041036042	Form3	0
5		E-5/2136/2020-CHE	202041036042	Form5	0
6	27531	E-12/2096/2020-CHE	202041036042	Form9	13750
7	27531	R20204025496	202041036042	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	500226	24/07/2020	44550

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E-mail : Chennai-patent@nic.in
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CHALLAN : TR-5
DOCKET NO:73151

Date/Time : 21/08/2020

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patent.vels@eattributes.com

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	27529	ORDINARY APPLICATION	202041036037	GRAPHENE-SILOXENE BASED COMPOSITE ANODES FOR LITHIUM-ION BATTERIES	8800
2		E-101/9198/2020-CHE	202041036037	Correspondence	0
3		E-2/2282/2020-CHE	202041036037	Form2	0
4		E-3/25856/2020-CHE	202041036037	Form3	0
5		E-5/2135/2020-CHE	202041036037	Form5	0
6	27529	E-12/2094/2020-CHE	202041036037	Form9	13750
7	27529	R20204025493	202041036037	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	500239	24/07/2020	44550

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E-mail : Chennai-patent@nic.in
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CHALLAN : TR-5
DOCKET NO:73132

Date/Time : 21/08/2020

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patent.vels@eattributes.com

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	27517	ORDINARY APPLICATION	202041036030	APPARATUS FOR SCREENING, EVALUATION AND IN VITRO-IN VIVO CORRELATION OF ANTI-DIABETIC ACTIVITY	8800
2		E-101/9192/2020-CHE	202041036030	Correspondence	0
3		E-2/2275/2020-CHE	202041036030	Form2	0
4		E-3/25848/2020-CHE	202041036030	Form3	0
5		E-5/2129/2020-CHE	202041036030	Form5	0
6	27517	E-12/2088/2020-CHE	202041036030	Form9	13750
7	27517	R20204025487	202041036030	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	500225	24/07/2020	44550

Note: This is electronically generated receipt hence no signature required.

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CHALLAN : TR-5
DOCKET NO:73140

Date/Time : 21/08/2020

To,
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VELAN NAGAR, PV VAITHIYALINGAM ROAD, PALLAVARAM, CHENNAI, TAMIL NADU-600 117, INDIA.
patent.vels@eattributes.com

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	27520	ORDINARY APPLICATION	202041036033	AUTOMATIC LEAF DISEASE DETECTION USING SMART PHONE	8800
2		E-101/9194/2020-CHE	202041036033	Correspondence	0
3		E-2/2277/2020-CHE	202041036033	Form2	0
4		E-3/25851/2020-CHE	202041036033	Form3	0
5		E-5/2131/2020-CHE	202041036033	Form5	0
6	27520	E-12/2090/2020-CHE	202041036033	Form9	13750
7	27520	R20204025489	202041036033	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	500241.	24/07/2020	44550

Note: This is electronically generated receipt hence no signature required.

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CHALLAN : TR-5
DOCKET NO:79962

Date/Time : 11/09/2020

To,
VELS INSTITUTE OF SCIENCE

Agent Number:

VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES (VITAS) VELAN NAGAR, PV VAITHIYALINGAM RD, PALLAVARAM, CHENNAI-600117, TAMILNADU, INDIA patent.vels@eattributes.com

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	30265	ORDINARY APPLICATION	202041039327	INNOVATION ON CNC LATHE TOOL POST WITH INTELLIGENT COOLING SYSTEM BY USING CRYOGENIC LIQUID NITROGEN	8800
2		E-101/9852/2020-CHE	202041039327	Correspondence	0
3		E-2/2509/2020-CHE	202041039327	Form2	0
4		E-3/28769/2020-CHE	202041039327	Form3	0
5		E-5/2391/2020-CHE	202041039327	Form5	0
6	30265	E-12/2323/2020-CHE	202041039327	Form9	13750
7	30265	R20204027953	202041039327	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	500157.	25/08/2020	44550

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CHALLAN : TR-5
DOCKET NO:79931

Date/Time : 11/09/2020

To,
Agent Number:

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VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES (VITAS) VELAN NAGAR, PV VAITHIYALINGAM RD, PALLAVARAM, CHENNAI-600117, TAMILNADU, INDIA patent.vels@eattributes.com

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	30255	ORDINARY APPLICATION	202041039318	IOT BASED SMART STICK FOR BLIND PERSON	8800
2		E-101/9846/2020-CHE	202041039318	Correspondence	0
3		E-2/2501/2020-CHE	202041039318	Form2	0
4		E-3/28758/2020-CHE	202041039318	Form3	0
5		E-5/2383/2020-CHE	202041039318	Form5	0
6	30255	E-12/2317/2020-CHE	202041039318	Form9	13750
7	30255	R20204027946	202041039318	Form18	22000
8	30255	ORDINARY APPLICATION	202041039319	DESIGN AND FABRICATION OF BATTERY-OPERATED ELECTRIC VEHICLE	8800
9		E-101/9847/2020-CHE	202041039319	Correspondence	0
10		E-2/2502/2020-CHE	202041039319	Form2	0
11		E-3/28759/2020-CHE	202041039319	Form3	0
12		E-5/2384/2020-CHE	202041039319	Form5	0
13	30255	E-12/2318/2020-CHE	202041039319	Form9	13750
14	30255	R20204027947	202041039319	Form18	22000
15	30255	ORDINARY APPLICATION	202041039320	RECAPTURE FOR RAPTURE- THE R PLUS R MEDITATION	8800
16		E-101/9848/2020-CHE	202041039320	Correspondence	0
17		E-2/2503/2020-CHE	202041039320	Form2	0
18		E-3/28760/2020-CHE	202041039320	Form3	0
19		E-5/2385/2020-CHE	202041039320	Form5	0
20	30255	E-12/2319/2020-CHE	202041039320	Form9	13750
21	30255	R20204027948	202041039320	Form18	22000
22	30255	ORDINARY APPLICATION	202041039321	WATER MONITORING AND ACCESSING SYSTEM FOR MULTISTOREY BUILDING	8800
23		E-101/9849/2020-CHE	202041039321	Correspondence	0
24		E-2/2504/2020-CHE	202041039321	Form2	0
25		E-3/28761/2020-CHE	202041039321	Form3	0
26		E-5/2386/2020-CHE	202041039321	Form5	0
27	30255	E-12/2320/2020-CHE	202041039321	Form9	13750
28	30255	R20204027949	202041039321	Form18	22000
Total :					178200

Received a sum of Rs. 178200 (Rupees One lakh Seventy Eight Thousand Two Hundred only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	500158	25/08/2020	44550
Draft	ICICI Bank	500224	24/07/2020	44550
Draft	ICICI Bank	500231	24/07/2020	44550
Draft	ICICI Bank	500156	25/08/2020	44550

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CHALLAN : TR-5
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Date/Time : 18/09/2020

To,
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VELAN NAGAR, PV VAITHIYALINGAM ROAD, PALLAVARAM, CHENNAI, TAMIL NADU-600 117, INDIA.
patent.vels@eattributes.com

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	31275	ORDINARY APPLICATION	202041040467	COMBINATION OF BIOFLAVONOIDS RUTIN AND BERBERINE NANOPARTICLES FOR ITS ANTICANCER ACTIVITY	8800
2		E-101/10154/2020-CHE	202041040467	Correspondence	0
3		E-2/2663/2020-CHE	202041040467	Form2	0
4		E-3/29489/2020-CHE	202041040467	Form3	0
5		E-5/2527/2020-CHE	202041040467	Form5	0
6	31275	E-12/2413/2020-CHE	202041040467	Form9	13750
7	31275	R20204028834	202041040467	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	501789	16/09/2020	44550

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CHALLAN : TR-5
DOCKET NO:82245

Date/Time : 18/09/2020

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patent.vels@eattributes.com

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	31260	ORDINARY APPLICATION	202041040456	PERDUCRANE	8800
2		E-101/10138/2020-CHE	202041040456	Correspondence	0
3		E-2/2658/2020-CHE	202041040456	Form2	0
4		E-3/29481/2020-CHE	202041040456	Form3	0
5		E-5/2522/2020-CHE	202041040456	Form5	0
6	31260	E-12/2408/2020-CHE	202041040456	Form9	13750
7	31260	R20204028825	202041040456	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	501782	16/09/2020	44550

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CHALLAN : TR-5
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Date/Time : 18/09/2020

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patent.vels@eattributes.com

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	31256	ORDINARY APPLICATION	202041040450	PRESSURE COOKER LID WATER SPILL ABSORBER	8800
2		E-101/10136/2020-CHE	202041040450	Correspondence	0
3		E-2/2656/2020-CHE	202041040450	Form2	0
4		E-3/29479/2020-CHE	202041040450	Form3	0
5		E-5/2520/2020-CHE	202041040450	Form5	0
6	31256	E-12/2407/2020-CHE	202041040450	Form9	13750
7	31256	R20204028821	202041040450	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	501783	16/09/2020	44550

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CHALLAN : TR-5
DOCKET NO:82228

Date/Time : 18/09/2020

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VELAN NAGAR, PV VAITHIYALINGAM ROAD, PALLAVARAM, CHENNAI, TAMIL NADU-600 117, INDIA.
patent.vels@eattributes.com

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	31253	ORDINARY APPLICATION	202041040446	RETRIEVAL OF MEDICAL DATA USING BIOMETRIC SYSTEMS AND REAL TIME DIAGNOSIS	8800
2		E-101/10135/2020-CHE	202041040446	Correspondence	0
3		E-2/2655/2020-CHE	202041040446	Form2	0
4		E-3/29475/2020-CHE	202041040446	Form3	0
5		E-5/2519/2020-CHE	202041040446	Form5	0
6	31253	E-12/2406/2020-CHE	202041040446	Form9	13750
7	31253	R20204028816	202041040446	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	500162	25/08/2020	44550

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CHALLAN : TR-5
DOCKET NO:82227

Date/Time : 18/09/2020

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VELAN NAGAR, PV VAITHIYALINGAM ROAD, PALLAVARAM, CHENNAI, TAMIL NADU-600 117, INDIA.
patent.vels@eattributes.com

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	31249	ORDINARY APPLICATION	202041040444	SELF-RECHARGING POWER BANK	8800
2		E-101/10133/2020-CHE	202041040444	Correspondence	0
3		E-2/2654/2020-CHE	202041040444	Form2	0
4		E-3/29474/2020-CHE	202041040444	Form3	0
5		E-5/2518/2020-CHE	202041040444	Form5	0
6	31249	E-12/2405/2020-CHE	202041040444	Form9	13750
7	31249	R20204028813	202041040444	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	500163	25/08/2020	44550

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CHALLAN : TR-5
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patent.vels@eattributes.com

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	31247	ORDINARY APPLICATION	202041040441	SMART SHIELD FOR WOMEN	8800
2		E-101/10131/2020-CHE	202041040441	Correspondence	0
3		E-2/2652/2020-CHE	202041040441	Form2	0
4		E-3/29471/2020-CHE	202041040441	Form3	0
5		E-5/2516/2020-CHE	202041040441	Form5	0
6	31247	E-12/2404/2020-CHE	202041040441	Form9	13750
7	31247	R20204028810	202041040441	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	500249	25/08/2020	44550

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CHALLAN : TR-5
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Date/Time : 18/09/2020

To,
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patent.vels@eattributes.com

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	31262	ORDINARY APPLICATION	202041040457	ANTIBACTERIAL AND ANTIFUNGAL ACTIVITY OF NANO HERBAL GEL FROM THE ETHANOLIC EXTRACT OF THE STEM BARK	8800
2		E-101/10142/2020-CHE	202041040457	Correspondence	0
3		E-2/2659/2020-CHE	202041040457	Form2	0
4		E-3/29483/2020-CHE	202041040457	Form3	0
5		E-5/2523/2020-CHE	202041040457	Form5	0
6	31262	E-12/2409/2020-CHE	202041040457	Form9	13750
7	31262	R20204028826	202041040457	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	501784	16/09/2020	44550

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CHALLAN : TR-5
DOCKET NO:82281

Date/Time : 18/09/2020

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patent.vels@eattributes.com

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	31281	ORDINARY APPLICATION	202041040470	AQUA DRONE	8800
2		E-101/10157/2020-CHE	202041040470	Correspondence	0
3		E-2/2665/2020-CHE	202041040470	Form2	0
4		E-3/29491/2020-CHE	202041040470	Form3	0
5		E-5/2528/2020-CHE	202041040470	Form5	0
6	31281	E-12/2414/2020-CHE	202041040470	Form9	13750
7	31281	R20204028838	202041040470	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	501788	16/09/2020	44550

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DOCKET NO:86860

Date/Time : 05/10/2020

To,
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Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	33219	ORDINARY APPLICATION	202041043143	PHYTOCHEMICAL SCREENING AND EVALUATION OF ANTIFERTILITY ACTIVITIES OF POLYGONUM GLABRUM IN FEMALE	8800
2		E-101/10498/2020-CHE	202041043143	Correspondence	0
3		E-2/2874/2020-CHE	202041043143	Form2	0
4		E-3/30880/2020-CHE	202041043143	Form3	0
5		E-5/2714/2020-CHE	202041043143	Form5	0
6	33219	E-12/2635/2020-CHE	202041043143	Form9	13750
7	33219	R20204030728	202041043143	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	501826	28/09/2020	44550

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E-mail : Chennai-patent@nic.in
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DOCKET NO:82267

Date/Time : 18/09/2020

To,
Agent Number:

VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES (VISTAS)
VELAN NAGAR, PV VAITHIYALINGAM ROAD, PALLAVARAM, CHENNAI, TAMIL NADU-600 117, INDIA.
patent.vels@eattributes.com

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	31271	ORDINARY APPLICATION	202041040465	DEVELOPMENT OF LUMEFANTRINE LOADED SEDDS: AN ATTEMPT TO IMPROVE THE ANTIMALARIAL EFFICACY AND	8800
2		E-101/10152/2020-CHE	202041040465	Correspondence	0
3		E-2/2662/2020-CHE	202041040465	Form2	0
4		E-3/29488/2020-CHE	202041040465	Form3	0
5		E-5/2526/2020-CHE	202041040465	Form5	0
6	31271	E-12/2412/2020-CHE	202041040465	Form9	13750
7	31271	R20204028833	202041040465	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	501786	16/09/2020	44550

Note: This is electronically generated receipt hence no signature required.

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CHALLAN : TR-5
DOCKET NO:82261

Date/Time : 18/09/2020

To,
Agent Number:
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patent.vels@eattributes.com

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	31268	ORDINARY APPLICATION	202041040464	VEHICLE ACCESS CONTROL USING BMT	8800
2		E-101/10144/2020-CHE	202041040464	Correspondence	0
3		E-2/2661/2020-CHE	202041040464	Form2	0
4		E-3/29486/2020-CHE	202041040464	Form3	0
5		E-5/2525/2020-CHE	202041040464	Form5	0
6	31268	E-12/2411/2020-CHE	202041040464	Form9	13750
7	31268	R20204028832	202041040464	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	501785	16/09/2020	44550

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CHALLAN : TR-5
DOCKET NO:86893

Date/Time : 05/10/2020

To,
Agent Number:

VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES (VISTAS)
VELAN NAGAR, P V VAITHIYALINGAM RD, PALLAVARAM, CHENNAI, TAMILNADU-600117, INDIA.
patent.vels@eattributes.com

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	33241	ORDINARY APPLICATION	202041043167	ANALYSIS OF STRESS LEVEL OF FINAL YEAR COMPUTER SCIENCE STUDENTS OF INDIAN EDUCATIONAL INSTITUTIONS	8800
2		E-101/10511/2020-CHE	202041043167	Correspondence	0
3		E-2/2882/2020-CHE	202041043167	Form2	0
4		E-3/30891/2020-CHE	202041043167	Form3	0
5		E-5/2722/2020-CHE	202041043167	Form5	0
6	33241	E-12/2643/2020-CHE	202041043167	Form9	13750
7	33241	R20204030750	202041043167	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	501834	28/09/2020	44550

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CHALLAN : TR-5
DOCKET NO:86880

Date/Time : 05/10/2020

To,
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VELAN NAGAR, P V VAITHIYALINGAM RD, PALLAVARAM, CHENNAI, TAMILNADU-600117, INDIA.
patent.vels@eattributes.com

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	33234	ORDINARY APPLICATION	202041043164	DEEP LEARNING IN SOIL AND PLANT DISEASE WITH NUTRIENT MANAGEMENT	8800
2		E-101/10504/2020-CHE	202041043164	Correspondence	0
3		E-2/2880/2020-CHE	202041043164	Form2	0
4		E-3/30889/2020-CHE	202041043164	Form3	0
5		E-5/2720/2020-CHE	202041043164	Form5	0
6	33234	E-12/2641/2020-CHE	202041043164	Form9	13750
7	33234	R20204030739	202041043164	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	501832	28/09/2020	44550

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CHALLAN : TR-5
DOCKET NO:86863

Date/Time : 05/10/2020

To,
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VELAN NAGAR, PV VAITHIYALINGAM ROAD, PALLAVARAM, CHENNAI, TAMIL NADU-600 117, INDIA.
patent.vels@eattributes.com

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	33220	ORDINARY APPLICATION	202041043149	LARGE-SCALE MANUFACTURING AND RECYCLE THE BLISTER PACKS WASTE INTO VALUE ADDED MATERIALS FOR NEXT	8800
2		E-101/10499/2020-CHE	202041043149	Correspondence	0
3		E-2/2875/2020-CHE	202041043149	Form2	0
4		E-3/30882/2020-CHE	202041043149	Form3	0
5		E-5/2715/2020-CHE	202041043149	Form5	0
6	33220	E-12/2636/2020-CHE	202041043149	Form9	13750
7	33220	R20204030730	202041043149	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	501835	28/09/2020	44550

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CHALLAN : TR-5
DOCKET NO:86869

Date/Time : 05/10/2020

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VELAN NAGAR, PV VAITHIYALINGAM ROAD, PALLAVARAM, CHENNAI, TAMIL NADU-600 117, INDIA.
patent.vels@eattributes.com

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	33226	ORDINARY APPLICATION	202041043161	PATTERN RECOGNITION ALGORITHM OF EARLY BREAST CANCER DETECTION IN MAMMOGRAM IMAGES AND CYST'S SIZE	8800
2		E-101/10502/2020-CHE	202041043161	Correspondence	0
3		E-2/2878/2020-CHE	202041043161	Form2	0
4		E-3/30885/2020-CHE	202041043161	Form3	0
5		E-5/2718/2020-CHE	202041043161	Form5	0
6	33226	E-12/2639/2020-CHE	202041043161	Form9	13750
7	33226	R20204030735	202041043161	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	501831	28/09/2020	44550

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CHALLAN : TR-5
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Date/Time : 05/10/2020

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patent.vels@eattributes.com

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	33238	ORDINARY APPLICATION	202041043165	SECURE FRAMEWORK FOR MITIGATION OF CLOUD BASED EDOS ATTACKS	8800
2		E-101/10505/2020-CHE	202041043165	Correspondence	0
3		E-2/2881/2020-CHE	202041043165	Form2	0
4		E-3/30890/2020-CHE	202041043165	Form3	0
5		E-5/2721/2020-CHE	202041043165	Form5	0
6	33238	E-12/2642/2020-CHE	202041043165	Form9	13750
7	33238	R20204030740	202041043165	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	501833	28/09/2020	44550

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CHALLAN : TR-5
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VELAN NAGAR, P V VAITHIYALINGAM RD, PALLAVARAM, CHENNAI, TAMILNADU-600117, INDIA.
patent.vels@eattributes.com

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	33215	ORDINARY APPLICATION	202041043136	GMM MODEL BASED ANOMALY DETECTION SYSTEM FOR INTRUDING OBJECTS	8800
2		E-101/10495/2020-CHE	202041043136	Correspondence	0
3		E-2/2871/2020-CHE	202041043136	Form2	0
4		E-3/30876/2020-CHE	202041043136	Form3	0
5		E-5/2711/2020-CHE	202041043136	Form5	0
6	33215	E-12/2632/2020-CHE	202041043136	Form9	13750
7	33215	R20204030718	202041043136	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	501827	28/09/2020	44550

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CHALLAN : TR-5
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Date/Time : 05/10/2020

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patent.vels@eattributes.com

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	33217	ORDINARY APPLICATION	202041043142	NOVEL DIATOM BIOSILICA NANOPARTICLES AS A DRUG DELIVERY CARRIER FOR INFECTIOUS DISEASES: DEVELOPMENT	8800
2		E-101/10497/2020-CHE	202041043142	Correspondence	0
3		E-2/2873/2020-CHE	202041043142	Form2	0
4		E-3/30878/2020-CHE	202041043142	Form3	0
5		E-5/2713/2020-CHE	202041043142	Form5	0
6	33217	E-12/2634/2020-CHE	202041043142	Form9	13750
7	33217	R20204030723	202041043142	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	501828	28/09/2020	44550

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E-mail : Chennai-patent@nic.in
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CHALLAN : TR-5
DOCKET NO:86875

Date/Time : 05/10/2020

To,
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VELAN NAGAR, P V VAITHIYALINGAM RD, PALLAVARAM, CHENNAI, TAMILNADU-600117, INDIA.
patent.vels@eattributes.com

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	33231	ORDINARY APPLICATION	202041043163	SMART WEARABLE GUIDING ASSISTANT (SWGA) FOR VISUALLY IMPAIRED	8800
2		E-101/10503/2020-CHE	202041043163	Correspondence	0
3		E-2/2879/2020-CHE	202041043163	Form2	0
4		E-3/30887/2020-CHE	202041043163	Form3	0
5		E-5/2719/2020-CHE	202041043163	Form5	0
6	33231	E-12/2640/2020-CHE	202041043163	Form9	13750
7	33231	R20204030738	202041043163	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	501830	28/09/2020	44550

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E-mail : Chennai-patent@nic.in
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CHALLAN : TR-5
DOCKET NO:86867

Date/Time : 05/10/2020

To,
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VELAN NAGAR, P V VAITHIYALINGAM RD, PALLAVARAM, CHENNAI, TAMILNADU-600117, INDIA.
patent.vels@eattributes.com

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	33224	ORDINARY APPLICATION	202041043156	ZIKA VIRUS PREDICTION USING IOT TRACKING SYSTEM	8800
2		E-101/10501/2020-CHE	202041043156	Correspondence	0
3		E-2/2877/2020-CHE	202041043156	Form2	0
4		E-3/30884/2020-CHE	202041043156	Form3	0
5		E-5/2717/2020-CHE	202041043156	Form5	0
6	33224	E-12/2638/2020-CHE	202041043156	Form9	13750
7	33224	R20204030734	202041043156	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	501829	28/09/2020	44550

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E-mail : Chennai-patent@nic.in
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CHALLAN : TR-5
DOCKET NO:107181

Date/Time : 11/12/2020

To,
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patent.vels@eattributes.com

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	41874	ORDINARY APPLICATION	202041053918	MIND READER SYSTEM IN SUPER MARKET	8800
2		E-101/12626/2020-CHE	202041053918	Correspondence	0
3		E-2/3630/2020-CHE	202041053918	Form2	0
4		E-3/37724/2020-CHE	202041053918	Form3	0
5		E-5/3488/2020-CHE	202041053918	Form5	0
6	41874	E-12/3548/2020-CHE	202041053918	Form9	13750
7	41874	R20204038996	202041053918	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	501850	12/10/2020	44550

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E-mail : Chennai-patent@nic.in
Web Site : www.ipindia.gov.in

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CHALLAN : TR-5
DOCKET NO:2957

Date/Time : 12/01/2021

To,
Agent Number:

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VELAN NAGAR, P V VAITHIYALINGAM RD, PALLAVARAM, CHENNAI, TAMILNADU-600117, INDIA.
patent.vels@eattributes.com

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	1257	ORDINARY APPLICATION	202141001362	DEVELOPMENT OF 2-CHLORO-4'-METHOXY BENZIL AND STUDY OF ITS ANTIBACTERIAL ACTIVITY	8800
2		E-101/383/2021-CHE	202141001362	Correspondence	0
3		E-2/147/2021-CHE	202141001362	Form2	0
4		E-3/1577/2021-CHE	202141001362	Form3	0
5		E-5/174/2021-CHE	202141001362	Form5	0
6	1257	E-12/153/2021-CHE	202141001362	Form9	13750
7	1257	R20214001103	202141001362	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	501935	07/01/2021	44550

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CHALLAN : TR-5
DOCKET NO:2944

Date/Time : 12/01/2021

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VELS INSTITUTE Of SCIENCE, TECHNOLOGY & ADVANCED STUDIES (VISTAS) VELAN NAGAR, PV VAITHIYALINGAM RD, PALLAVARAM CHNENAI TAMIL NADU -600 117 INDIA patent.vels@eattributes.com

Agent Number:

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	1248	ORDINARY APPLICATION	202141001354	A MULTICOMPONENT SYNTHESIS OF DISPIRO-ACENAPTHENONE-DIPYRROLOPIPERAZINE SCAFFOLDS THROUGH DIPOLAR CY	8800
2		E-101/380/2021-CHE	202141001354	Correspondence	0
3		E-2/144/2021-CHE	202141001354	Form2	0
4		E-3/1573/2021-CHE	202141001354	Form3	0
5		E-5/171/2021-CHE	202141001354	Form5	0
6	1248	E-12/150/2021-CHE	202141001354	Form9	13750
7	1248	R20214001097	202141001354	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	501930	07/01/2021	44550

Note: This is electronically generated receipt hence no signature required.

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INTELLECTUAL PROPERTY BUILDING
G.S.T. Road, Guindy, Chennai-600032
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CHALLAN : TR-5
DOCKET NO:2934

Date/Time : 12/01/2021

To,
Agent Number:

VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES (VISTAS)
VELS INSTITUTE Of SCIENCE, TECHNOLOGY & ADVANCED STUDIES (VISTAS) VELAN NAGAR, PV VAITHIYALINGAM RD, PALLAVARAM CHNENAI TAMIL NADU -600 117 INDIA patent.vels@eattributes.com

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	1242	ORDINARY APPLICATION	202141001346	DUAL ACCELERATOR FOR BIKES	8800
2		E-101/377/2021-CHE	202141001346	Correspondence	0
3		E-2/141/2021-CHE	202141001346	Form2	0
4		E-3/1569/2021-CHE	202141001346	Form3	0
5		E-5/168/2021-CHE	202141001346	Form5	0
6	1242	E-12/147/2021-CHE	202141001346	Form9	13750
7	1242	R20214001093	202141001346	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	501933	07/01/2021	44550

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CHALLAN : TR-5
DOCKET NO:2948

Date/Time : 12/01/2021

To,
VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES (VISTAS)
VELS INSTITUTE Of SCIENCE, TECHNOLOGY & ADVANCED STUDIES (VISTAS) VELAN NAGAR, PV VAITHIYALINGAM RD, PALLAVARAM CHNENAI TAMIL NADU -600 117 INDIA patent.vels@eattributes.com

Agent Number:

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	1249	ORDINARY APPLICATION	202141001357	IDENTIFYING STRUCTURAL PATTERNS OF CHEMICAL BONDS	8800
2		E-101/381/2021-CHE	202141001357	Correspondence	0
3		E-2/145/2021-CHE	202141001357	Form2	0
4		E-3/1574/2021-CHE	202141001357	Form3	0
5		E-5/172/2021-CHE	202141001357	Form5	0
6	1249	E-12/151/2021-CHE	202141001357	Form9	13750
7	1249	R20214001099	202141001357	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	501931	07/01/2021	44550

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CHALLAN : TR-5
DOCKET NO:2952

Date/Time : 12/01/2021

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VELS INSTITUTE Of SCIENCE, TECHNOLOGY & ADVANCED STUDIES (VISTAS) VELAN NAGAR, PV VAITHIYALINGAM RD, PALLAVARAM CHNENAI TAMIL NADU -600 117 INDIA patent.vels@eattributes.com

Agent Number:

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	1253	ORDINARY APPLICATION	202141001360	VOICE RECOGNITION BASED AUTOMATED MIXER GRINDER	8800
2		E-101/382/2021-CHE	202141001360	Correspondence	0
3		E-2/146/2021-CHE	202141001360	Form2	0
4		E-3/1575/2021-CHE	202141001360	Form3	0
5		E-5/173/2021-CHE	202141001360	Form5	0
6	1253	E-12/152/2021-CHE	202141001360	Form9	13750
7	1253	R20214001100	202141001360	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	501934	07/01/2021	44550

Note: This is electronically generated receipt hence no signature required.

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CHALLAN : TR-5
DOCKET NO:2945

Date/Time : 12/01/2021

To,
Agent Number:

VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES (VISTAS)
VELAN NAGAR, P V VAITHIYALINGAM ROAD, PALLAVARAM, CHENNAI, TAMILNADU-600117, INDIA.
patent.vels@eattributes.com

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	1246	ORDINARY APPLICATION	202141001351	WIRELESS SENSOR DEVICES IN TRAFFIC SIGNAL POST FOR TRACKING VEHICLE USING ARTIFICIAL NEURAL NETWORK	8800
2		E-101/379/2021-CHE	202141001351	Correspondence	0
3		E-2/143/2021-CHE	202141001351	Form2	0
4		E-3/1572/2021-CHE	202141001351	Form3	0
5		E-5/170/2021-CHE	202141001351	Form5	0
6	1246	E-12/149/2021-CHE	202141001351	Form9	13750
7	1246	R20214001096	202141001351	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	501932	07/01/2021	44550

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CHALLAN : TR-5
DOCKET NO:69147

Date/Time : 10/08/2020

To,
MANDAVA V. BASAVESWARA RAO

Agent Number:

FLAT NO. 403, SRI LAKSHMI SAI HOMES NETAJI STREET, PATAMATA LANKA, BENZ CIRCLE, VIJAYAWADA - 520 010, ANDHRA PRADESH, INDIA. professormandava@gmail.com

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	25949	ORDINARY APPLICATION	202041034187	BIS(INDOLYL)HYDRAZIDE-HYDRAZONE DERIVATIVES AS ANTICANCER AGENTS	1750
2		E-2/2178/2020-CHE	202041034187	Form2	0
3		E-3/24546/2020-CHE	202041034187	Form3	0
4		E-5/2017/2020-CHE	202041034187	Form5	0
Total :					1750

Received a sum of Rs. 1750 (Rupees One Thousand Seven Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	Andhra Bank	875736	03/08/2020	1750

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CHALLAN : TR-5
DOCKET NO:39430

Date/Time : 06/05/2021

To,
VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES (VISTAS)
VELAN NAGAR, PV VAITHIYALINGAM RD, PALLAVARAM, CHENNAI, TAMIL NADU - 600117, INDIA.
patent.vels@eattributes.com

Agent Number:

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	16677	ORDINARY APPLICATION	202141020623	AN INITIAL STEP TO IMPLEMENT SMART BINS IN CHENNAI LOCAL TRAINS	8800
2		E-101/4193/2021-CHE	202141020623	Correspondence	0
3		E-2/1577/2021-CHE	202141020623	Form2	0
4		E-3/14089/2021-CHE	202141020623	Form3	0
5		E-5/1721/2021-CHE	202141020623	Form5	0
6	16677	E-12/1757/2021-CHE	202141020623	Form9	13750
7	16677	R20214015914	202141020623	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	501974	03/05/2021	44550

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E-mail : Chennai-patent@nic.in
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CHALLAN : TR-5
DOCKET NO:39428

Date/Time : 06/05/2021

To,
VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES (VISTAS)
VELAN NAGAR, P V VAITHIYALINGAM RD, PALLAVARAM, CHENNAI, TAMILNADU-600117, INDIA.
patent.vels@eattributes.com

Agent Number:

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	16678	ORDINARY APPLICATION	202141020624	DRONE DETECTION	8800
2		E-101/4194/2021-CHE	202141020624	Correspondence	0
3		E-2/1578/2021-CHE	202141020624	Form2	0
4		E-3/14090/2021-CHE	202141020624	Form3	0
5		E-5/1722/2021-CHE	202141020624	Form5	0
6	16678	E-12/1758/2021-CHE	202141020624	Form9	13750
7	16678	R20214015915	202141020624	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	501976	03/05/2021	44550

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E-mail : Chennai-patent@nic.in
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CHALLAN : TR-5
DOCKET NO:39424

Date/Time : 06/05/2021

To,
VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES (VISTAS)
VELAN NAGAR, P V VAITHIYALINGAM RD, PALLAVARAM, CHENNAI, TAMILNADU-600117, INDIA.
patent.vels@eattributes.com

Agent Number:

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	16673	ORDINARY APPLICATION	202141020621	IOT ENABLED WATER QUALITY MONITORING AND ALERTING SYSTEM FOR HOME WATER PURIFIER	8800
2		E-101/4191/2021-CHE	202141020621	Correspondence	0
3		E-2/1575/2021-CHE	202141020621	Form2	0
4		E-3/14086/2021-CHE	202141020621	Form3	0
5		E-5/1719/2021-CHE	202141020621	Form5	0
6	16673	E-12/1755/2021-CHE	202141020621	Form9	13750
7	16673	R20214015912	202141020621	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	501977	03/05/2021	44550

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E-mail : Chennai-patent@nic.in
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CHALLAN : TR-5
DOCKET NO:39422

Date/Time : 06/05/2021

To,
VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES (VISTAS)
VELAN NAGAR, PV VAITHIYALINGAM RD, PALLAVARAM, CHENNAI, TAMIL NADU - 600117, INDIA.
patent.vels@eattributes.com

Agent Number:

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	16671	ORDINARY APPLICATION	202141020620	SYSTEM AND METHOD FOR SECURE TRANSMISSION IN MOBILE AD HOC NETWORKS USING TRUST MANAGEMENT	8800
2		E-101/4190/2021-CHE	202141020620	Correspondence	0
3		E-2/1574/2021-CHE	202141020620	Form2	0
4		E-3/14085/2021-CHE	202141020620	Form3	0
5		E-5/1718/2021-CHE	202141020620	Form5	0
6	16671	E-12/1754/2021-CHE	202141020620	Form9	13750
7	16671	R20214015911	202141020620	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	501978	03/05/2021	44550

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PATENT OFFICE
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CHALLAN : TR-5
DOCKET NO:39425

Date/Time : 06/05/2021

To,
Agent Number:
VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES (VISTAS)
VELAN NAGAR, PV VAITHIYALINGAM RD, PALLAVARAM, CHENNAI, TAMIL NADU - 600117, INDIA.
patent.vels@eattributes.com

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	16674	ORDINARY APPLICATION	202141020622	DEVELOPMENT OF BUCCAL ADHESIVE FILM CONTAINING COMBINATION OF ANTI-OXIDANTS FOR PREVENTING THE PROGR	8800
2		E-101/4192/2021-CHE	202141020622	Correspondence	0
3		E-2/1576/2021-CHE	202141020622	Form2	0
4		E-3/14088/2021-CHE	202141020622	Form3	0
5		E-5/1720/2021-CHE	202141020622	Form5	0
6	16674	E-12/1756/2021-CHE	202141020622	Form9	13750
7	16674	R20214015913	202141020622	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	501975	03/05/2021	44550

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CHALLAN : TR-5
DOCKET NO:39391

Date/Time : 06/05/2021

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VELAN NAGAR, PV VAITHIYALINGAM RD, PALLAVARAM, CHENNAI, TAMIL NADU - 600117, INDIA.
patent.vels@eattributes.com

Agent Number:

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	16657	ORDINARY APPLICATION	202141020611	WATER LEVEL AND WATER DISCHARGE MONITORING OF INLAND WATER BODIES USING LEO SATELLITE CONSTELLATION	8800
2		E-101/4186/2021-CHE	202141020611	Correspondence	0
3		E-2/1572/2021-CHE	202141020611	Form2	0
4		E-3/14076/2021-CHE	202141020611	Form3	0
5		E-5/1716/2021-CHE	202141020611	Form5	0
6	16657	E-12/1751/2021-CHE	202141020611	Form9	13750
7	16657	R20214015905	202141020611	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	501980.	03/05/2021	44550

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E-mail : Chennai-patent@nic.in
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CHALLAN : TR-5
DOCKET NO:39418

Date/Time : 06/05/2021

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VELAN NAGAR, P V VAITHIYALINGAM RD, PALLAVARAM, CHENNAI, TAMILNADU-600117, INDIA.
patent.vels@eattributes.com

Agent Number:

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	16667	ORDINARY APPLICATION	202141020617	STRESS METER USING PULSE AND SWEAT SENSOR	8800
2		E-101/4188/2021-CHE	202141020617	Correspondence	0
3		E-2/1573/2021-CHE	202141020617	Form2	0
4		E-3/14084/2021-CHE	202141020617	Form3	0
5		E-5/1717/2021-CHE	202141020617	Form5	0
6	16667	E-12/1752/2021-CHE	202141020617	Form9	13750
7	16667	R20214015909	202141020617	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	501979	03/05/2021	44550

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G.S.T. Road, Guindy, Chennai-600032
Tel No. (091)(044) 22502081-84 Fax No. 044 22502066
E-mail : Chennai-patent@nic.in
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CHALLAN : TR-5
DOCKET NO:39379

Date/Time : 06/05/2021

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VELAN NAGAR, P V VAITHIYALINGAM RD, PALLAVARAM, CHENNAI, TAMILNADU-600117, INDIA.
patent.vels@eattributes.com

Agent Number:

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	16650	ORDINARY APPLICATION	202141020607	A BIOMETRIC SYSTEM FOR MONITORING THE ATTENDANCE OF IT STUDENTS IN VISTAS	8800
2		E-101/4177/2021-CHE	202141020607	Correspondence	0
3		E-2/1569/2021-CHE	202141020607	Form2	0
4		E-3/14072/2021-CHE	202141020607	Form3	0
5		E-5/1713/2021-CHE	202141020607	Form5	0
6	16650	E-12/1748/2021-CHE	202141020607	Form9	13750
7	16650	R20214015903	202141020607	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	501982	03/05/2021	44550

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G.S.T. Road, Guindy, Chennai-600032
Tel No. (091)(044) 22502081-84 Fax No. 044 22502066
E-mail : Chennai-patent@nic.in
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CHALLAN : TR-5
DOCKET NO:39382

Date/Time : 06/05/2021

To,
Agent Number:

VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES (VISTAS)
VELAN NAGAR, P V VAITHIYALINGAM RD, PALLAVARAM, CHENNAI, TAMILNADU-600117, INDIA.
patent.vels@eattributes.com

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	16651	ORDINARY APPLICATION	202141020608	A SPECIAL ALARM SYSTEM FOR PRESSURE COOKER WHISTLE INDICATOR WITH LID AND WHEELS	8800
2		E-101/4184/2021-CHE	202141020608	Correspondence	0
3		E-2/1570/2021-CHE	202141020608	Form2	0
4		E-3/14073/2021-CHE	202141020608	Form3	0
5		E-5/1714/2021-CHE	202141020608	Form5	0
6	16651	E-12/1749/2021-CHE	202141020608	Form9	13750
7	16651	R20214015904	202141020608	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	501981	03/05/2021	44550

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CHALLAN : TR-5
DOCKET NO:39367

Date/Time : 06/05/2021

To,
Agent Number:
VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES (VISTAS)
VELAN NAGAR, P V VAITHIYALINGAM RD, PALLAVARAM, CHENNAI, TAMILNADU-600117, INDIA.
patent.vels@eattributes.com

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	16646	ORDINARY APPLICATION	202141020603	SECURING MULTIMODAL BIOMETRIC TEMPLATE USING NATURE INSPIRED OPTIMIZATION ALGORITHMS	8800
2		E-101/4165/2021-CHE	202141020603	Correspondence	0
3		E-2/1567/2021-CHE	202141020603	Form2	0
4		E-3/14069/2021-CHE	202141020603	Form3	0
5		E-5/1712/2021-CHE	202141020603	Form5	0
6	16646	E-12/1745/2021-CHE	202141020603	Form9	13750
7	16646	R20214015900	202141020603	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	501983	03/05/2021	44550

Note: This is electronically generated receipt hence no signature required.

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CHALLAN : TR-5
DOCKET NO:68616

Date/Time : 06/08/2021

To,
Agent Number:

VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES (VISTAS)
VELAN NAGAR, PV VAITHIYALINGAM ROAD, PALLAVARAM, CHENNAI, TAMIL NADU-600 117, INDIA.
patent.vels@eattributes.com

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	28978	ORDINARY APPLICATION	202141035476	FORMULATION OF PHENYLEPHRINE AND AMIKACIN NANOEMULSION	8800
2		E-101/6097/2021-CHE	202141035476	Correspondence	0
3		E-2/2595/2021-CHE	202141035476	Form2	0
4		E-3/23964/2021-CHE	202141035476	Form3	0
5		E-5/2774/2021-CHE	202141035476	Form5	0
6	28978	E-12/3091/2021-CHE	202141035476	Form9	13750
7	28978	R20214026558	202141035476	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	504556	10/06/2021	44550

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Application Details	
APPLICATION NUMBER	202141041140
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	14/09/2021
APPLICANT NAME	**Vels Institute of Science, Technology & Advanced Studies (VISTAS)**
TITLE OF INVENTION	SEDIDEEP: A NOVEL DEEP LEARNING APPROACH FOR SEABED SEDIMENT CLASSIFICATION IN SUBBOTTOM PROFILE IMAGE
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	14/09/2021
PUBLICATION DATE (U/S 11A)	29/10/2021

Application Status	
APPLICATION STATUS	**Reply not Filed Deemed to be abandoned U/s 21(1)**

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Application Details	
APPLICATION NUMBER	202241002749
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	18/01/2022
APPLICANT NAME	**1 . Selligoundanur subramaniam sivaraju** **2 . Dr. G. BANU** **3 . Dr.LIJO JACOB VARGHESE** **4 . Dr.G.Manikandan** **5 . Pankaj Ramtekkar** **6 . Dr.M.Ruban** **7 . Dr Priyabrata Adhikary** **8 . Dr Susmita Kundu** **9 . Dr.M.SANGEETHA** **10 . C.M.Vivek**
TITLE OF INVENTION	Fuel Cell and PV Array-Based Hybrid Power Generation
FIELD OF INVENTION	ELECTRICAL
E-MAIL (As Per Record)	sssivaraju@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	04/02/2022

Application Status	
APPLICATION STATUS	**Awaiting Request for Examination**

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Ministry of Commerce and Industry

Design Application Details

Application Number:

356098-001

Cbr Number:

211618

Cbr Date:

03/01/2022 22:37:17

Applicant Name:

1. Dr.G.Manoj2. DR.P.Govindasamy3. Dr.D.Anitha Kumari4. Dr.S.Thandayuthapani5. Dr. Stanley Vincent G

Design Application Status

Application Status:

Design Accepted and Published, Journal No is 19/2022 and Journal Date is 13/05/2022

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Application Details	
APPLICATION NUMBER	202221002690
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	17/01/2022
APPLICANT NAME	**1 . Dr. Dhiren Ramanbhai Patel** **2 . Mr.K Velmurugan** **3 . Dr. S. Ramasubramanian** **4 . Dr. NARENDRANATHAN.S.K** **5 . Dr. M.Thiyagu** **6 . Mr.T.N. Sureshkumar** **7 . Mr.R KARTHICK** **8 . Mr.ADIRAJU RADHA KRISHNA** **9 . Dr. S.KALIAPPAN** **10 . Ms.V. Leela Devi**
TITLE OF INVENTION	CAD/CAE TOOLS IN ENGINEERING EDUCATION: A MODERN APPROACH TO INDUSTRIAL DESIGN
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	senanipindia@gmail.com
ADDITIONAL-EMAIL (As Per Record)	admin@senanip.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	11/03/2022

Application Status	
APPLICATION STATUS	**Awaiting Request for Examination**

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Application Details	
APPLICATION NUMBER	202241008088
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	16/02/2022
APPLICANT NAME	**VELS INSTITUTE OF SCIENCE, TECHNOLOGY AND ADVANCED STUDIES (VISTAS)**
TITLE OF INVENTION	MICROWAVABLE HEATING PAD USING RICE HUSK
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	16/02/2022
PUBLICATION DATE (U/S 11A)	04/03/2022
REPLY TO FER DATE	15/12/2022

Application Status	
APPLICATION STATUS	**Reply Filed. Application in amended examination**

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Application Details	
APPLICATION NUMBER	202241008089
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	16/02/2022
APPLICANT NAME	**VELS INSTITUTE OF SCIENCE, TECHNOLOGY AND ADVANCED STUDIES (VISTAS)**
TITLE OF INVENTION	RETINAL FUNDUS IMAGE ANALYSIS FOR DIAGNOSIS OF GLAUCOMA
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	16/02/2022
PUBLICATION DATE (U/S 11A)	04/03/2022

Application Status	
APPLICATION STATUS	**FER Issued, Reply not Filed**

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Application Details	
APPLICATION NUMBER	202241008093
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	16/02/2022
APPLICANT NAME	**VELS INSTITUTE OF SCIENCE, TECHNOLOGY AND ADVANCED STUDIES (VISTAS)**
TITLE OF INVENTION	SMART DUSTBIN FOR GARBAGE MONITORING, SEGREGATING AND COLLECTION
FIELD OF INVENTION	MECHANICAL ENGINEERING
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	16/02/2022
PUBLICATION DATE (U/S 11A)	04/03/2022

Application Status	
APPLICATION STATUS	**FER Issued, Reply not Filed**

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Application Details	
APPLICATION NUMBER	202241008094
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	16/02/2022
APPLICANT NAME	**VELS INSTITUTE OF SCIENCE, TECHNOLOGY AND ADVANCED STUDIES (VISTAS)**
TITLE OF INVENTION	IOT BASED LIQUID METAL LEAKAGE ALERT SYSTEM
FIELD OF INVENTION	ELECTRONICS
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	16/02/2022
PUBLICATION DATE (U/S 11A)	22/04/2022

Application Status	
APPLICATION STATUS	**FER Issued, Reply not Filed**

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Application Details	
APPLICATION NUMBER	202241008125
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	16/02/2022
APPLICANT NAME	**VELS INSTITUTE OF SCIENCE, TECHNOLOGY AND ADVANCED STUDIES (VISTAS)**
TITLE OF INVENTION	DEVELOPMENT OF TOPICAL OINTMENT CONTAINING HERBAL EXTRACTS FOR TREATING PSORIASIS
FIELD OF INVENTION	BIOTECHNOLOGY
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	16/02/2022
PUBLICATION DATE (U/S 11A)	04/03/2022

Application Status	
APPLICATION STATUS	**Application Awaiting Examination**

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Application Details	
APPLICATION NUMBER	202241008126
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	16/02/2022
APPLICANT NAME	**VELS INSTITUTE OF SCIENCE, TECHNOLOGY AND ADVANCED STUDIES (VISTAS)**
TITLE OF INVENTION	INHIBITORY EFFECT OF TRAGIA INVOLUCRATA BY IN VITRO AND IN VIVO METHODS THROUGH MITOCHONDRIAL MOLECU
FIELD OF INVENTION	BIO-CHEMISTRY
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	16/02/2022
PUBLICATION DATE (U/S 11A)	04/03/2022

Application Status	
APPLICATION STATUS	**Application Awaiting Examination**

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Application Details	
APPLICATION NUMBER	202241008127
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	16/02/2022
APPLICANT NAME	**VELS INSTITUTE OF SCIENCE, TECHNOLOGY AND ADVANCED STUDIES (VISTAS)**
TITLE OF INVENTION	SYSTEM AND METHOD FOR REMOTE MONITORING THE PAIN OF ICU PATIENTS USING IOT
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	16/02/2022
PUBLICATION DATE (U/S 11A)	04/03/2022
REPLY TO FER DATE	08/12/2022

Application Status	
APPLICATION STATUS	**Reply Filed. Application in amended examination**

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Application Details	
APPLICATION NUMBER	202241008130
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	16/02/2022
APPLICANT NAME	**VELS INSTITUTE OF SCIENCE, TECHNOLOGY AND ADVANCED STUDIES (VISTAS)**
TITLE OF INVENTION	FRUIT DETECTION AND MONITORING OF RIPENING STAGES USING ARDUINO NANO
FIELD OF INVENTION	FOOD
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	16/02/2022
PUBLICATION DATE (U/S 11A)	04/03/2022

Application Status	
APPLICATION STATUS	**Application Awaiting Examination**

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Application Details	
APPLICATION NUMBER	202241008131
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	16/02/2022
APPLICANT NAME	**VELS INSTITUTE OF SCIENCE, TECHNOLOGY AND ADVANCED STUDIES (VISTAS)**
TITLE OF INVENTION	ANALYSIS OF UNDERWATER SEDIMENT LAYERS USING SUB BOTTOM PROFILER IMAGES FOR LAYING PIPELINES
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	16/02/2022
PUBLICATION DATE (U/S 11A)	04/03/2022
REPLY TO FER DATE	16/12/2022

Application Status	
APPLICATION STATUS	**Reply Filed. Application in amended examination**

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Application Details	
APPLICATION NUMBER	202241010563
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	28/02/2022
APPLICANT NAME	**VELS INSTITUTE OF SCIENCE, TECHNOLOGY AND ADVANCED STUDIES**
TITLE OF INVENTION	ANALYZE THE MEDICAL THRESHOLDS FOR CKD AND CARDIOVASCULAR DISEASE USING IOT
FIELD OF INVENTION	COMMUNICATION
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	28/02/2022
PUBLICATION DATE (U/S 11A)	11/03/2022

Application Status	
APPLICATION STATUS	**FER Issued, Reply not Filed**

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Tel No. (091)(044) 22502081-84 Fax No. 044 22502066
E-mail : Chennai-patent@nic.in
Web Site : www.ipindia.gov.in

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CHALLAN : TR-5
DOCKET NO:80944

Date/Time : 14/09/2021

To,
Agent Number:

VELS INSTITUTE OF SCIENCE, TECHNOLOGY AND ADVANCED STUDIES (VITAS)
VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES(VITAS) VELAN NAGAR, PV VAITHIYALINGAM RD, PALLAVARAM CHENNAI TAMIL NADU-600117 INDIA patent.vels@eattributes.com

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	33764	ORDINARY APPLICATION	202141041140	SEDIDEEP: A NOVEL DEEP LEARNING APPROACH FOR SEABED SEDIMENT CLASSIFICATION IN SUBBOTTOM PROFILE IMA	8800
2		E-101/7219/2021-CHE	202141041140	Correspondence	0
3		E-2/3036/2021-CHE	202141041140	Form2	0
4		E-3/28203/2021-CHE	202141041140	Form3	0
5		E-5/3204/2021-CHE	202141041140	Form5	0
6	33764	E-12/3635/2021-CHE	202141041140	Form9	13750
7	33764	R20214030725	202141041140	Form18	22000
Total :					44550

Received a sum of Rs. 44550 (Rupees Forty Four Thousand Five Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	ICICI Bank	504675	02/08/2021	44550

Note: This is electronically generated receipt hence no signature required.

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Application Details	
APPLICATION NUMBER	202221007564
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	12/02/2022
APPLICANT NAME	**1 . Dr. Neeta Deshpande** **2 . Dr.S.S.Onyx Nathanael Nirmal Raj** **3 . Dr .K. Vinayagam** **4 . PD Gladstan** **5 . Dr. V. Jayanthi** **6 . Dr.D . Paul Dhinakarn** **7 . Dr. Syed Shakir Razvi**
TITLE OF INVENTION	THE MAIN ROLE OF E-COMMERCE IN DECREASING OPERATING COST IN BUSINESS
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	senanipindia@gmail.com
ADDITIONAL-EMAIL (As Per Record)	admin@senanip.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	01/04/2022

Application Status	
APPLICATION STATUS	**Awaiting Request for Examination**

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Application Details	
APPLICATION NUMBER	202241007248
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	11/02/2022
APPLICANT NAME	**1 . DR. K.SIVAKUMAR** **2 . DR.VENKATESH S** **3 . DR.N.HEMAVATHY** **4 . DR. M.PREETHA** **5 . DR.L.C.MANIKANDAN** **6 . DR. A. THIRUMURTHI RAJA** **7 . Dr. R.GOBINATH** **8 . PROF.SARATH RAJ S** **9 . PROF.LIJESH L** **10 . DR.A.VASUDEVAN** **11 . DR. S. VIGNESHWARAN** **12 . PROF. NAGARAJ.V**
TITLE OF INVENTION	A SYSTEM AND METHOD OF SECURED AND INTELLIGENT COMMUNICATION SCHEME FOR IIOT-ENABLED PERVASIVE EDGE COMPUTING
FIELD OF INVENTION	COMMUNICATION
E-MAIL (As Per Record)	gnanaraj.134@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	18/02/2022

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APPLICATION STATUS	**Awaiting Request for Examination**

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Application Details	
APPLICATION NUMBER	202241008566
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	18/02/2022
APPLICANT NAME	**1 . K.Madumathi** **2 . K M MONICA** **3 . Dr S.Sridevi** **4 . Dr. S. Meenakshi** **5 . Mr. V. Vijayabhaskar** **6 . DR. CHALLA BABU** **7 . Dr.K.Gunasekaran** **8 . T CH ANIL KUMAR** **9 . NITHIYANANTHAN KANNAN** **10 . Ramashis Banerjee**
TITLE OF INVENTION	IoT application for monitoring current, voltage and temperature in a three-phase induction motor
FIELD OF INVENTION	COMMUNICATION
E-MAIL (As Per Record)	esdiyeminfotech@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	04/03/2022

Application Status	
APPLICATION STATUS	**Awaiting Request for Examination**

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Application Details	
APPLICATION NUMBER	202241010441
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	26/02/2022
APPLICANT NAME	**1 . Dr.A.Gokulakrishnan** **2 . Dr.S.S.Onyx Nathanael Nirmal Raj** **3 . Dr.M.Bhuvana** **4 . Ratnesh Pal Singh** **5 . Dr. Balraj** **6 . Dr.R.Vallal Raja** **7 . Dr.D. Paul Dhinakaran** **8 . G.BIRUNDHA**
TITLE OF INVENTION	Investigating Leadership Style Behavioral and Managerial Competency of Successful HR Manager
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	senanipindia@gmail.com
ADDITIONAL-EMAIL (As Per Record)	admin@senanip.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	04/03/2022

Application Status	
APPLICATION STATUS	**Awaiting Request for Examination**

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Application Details	
APPLICATION NUMBER	202241010806
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	28/02/2022
APPLICANT NAME	**1 . Dr. R. Srikanth** **2 . Mr Raghavan** **3 . Mr Suhas Prakashrao Patil** **4 . Dr. Rakesh** **5 . Mr. Anand soni** **6 . Mr Gagan Vibhu** **7 . Dr Rishi P Shukla** **8 . Dr. Rakesh Jaychand Motiyani** **9 . Dr. Harshal Gunvantrai Vashi** **10 . Dr V S. Shaisundaram** **11 . Dr. Ved Prakash Bhardwaj** **12 . Ms S. Jothimani**
TITLE OF INVENTION	Effective hybrid technique for logistics industries
FIELD OF INVENTION	COMMUNICATION
E-MAIL (As Per Record)	senanipindia@gmail.com
ADDITIONAL-EMAIL (As Per Record)	admin@senanip.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	11/03/2022

Application Status	
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Application Details	
APPLICATION NUMBER	202241009451
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	22/02/2022
APPLICANT NAME	**1 . Dr. T. Sree Kala** **2 . Mrs. Anitha Christy Angelin.P** **3 . Mrs. R Angel Sujitha** **4 . Dr. K. Murugesan** **5 . Dr. B Devipriya** **6 . Dr. S K Piramu Preethika** **7 . Dr. G. Thailambal** **8 . Mrs. K.Sundara Velrani**
TITLE OF INVENTION	Deep Learning Algorithm for Wi-Fi-Based Identity Recognition
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	mail2patentipr@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	04/03/2022

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Application Details	
APPLICATION NUMBER	202241009981
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	24/02/2022
APPLICANT NAME	**1 . K.Parvathavarthini** **2 . D SASIKALA** **3 . DR. RAJEEV RAGHUVANSHI** **4 . DR. MD ILYAS** **5 . N.Valarmathi** **6 . Dr.V.Santhosh** **7 . Dr.S.Malathy** **8 . K.PRAKASH** **9 . M.SUDHARSAN** **10 . Dr. Renu Sharma**
TITLE OF INVENTION	ROBUST PASSWORD-KEEPING SYSTEM USING BLOCKCHAIN TECHNOLOGY
FIELD OF INVENTION	COMMUNICATION
E-MAIL (As Per Record)	sparu41@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	04/03/2022

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Application Details	
APPLICATION NUMBER	202241010354
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	25/02/2022
APPLICANT NAME	**1 . Dr. S. Saradha** **2 . Mrs. R. Vasanthi** **3 . Mrs. M. Gowri** **4 . Ms. M. Annal Priyanga** **5 . Ms. Aishwarya C** **6 . Dr. R. Umamageswari** **7 . Ms. Janani. K** **8 . Dr. S. Mangayarkarasi**
TITLE OF INVENTION	Internet of Things Platform Based on 3d Printer Monitoring System
FIELD OF INVENTION	MECHANICAL ENGINEERING
E-MAIL (As Per Record)	mail2patentipr@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	27/05/2022

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Application Details	
APPLICATION NUMBER	202241019186
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	31/03/2022
APPLICANT NAME	**1 . PROF. NAGARAJ.V** **2 . DR. K.SIVAKUMAR** **3 . DR.M.G.KAVITHA** **4 . PROF.R.R.RAMESH BABU** **5 . PROF. N.KRISHNAMOORTHY** **6 . DR. A.S. ARUNACHALAM** **7 . DR.A.VASUDEVAN** **8 . DR.L.C.MANIKANDAN** **9 . PROF. R.ANANDAN** **10 . PROF. R.BALAMURUGAN** **11 . DR. M.PREETHA** **12 . DR.T.VIGNESH**
TITLE OF INVENTION	A BLOCKCHAIN TECHNOLOGY - HASH AND VOTING BASED SERVICE CLASSIFICATION USING INFORMATION TECHNOLOGY ARCHITECTURE IN EDGE COMPUTING
FIELD OF INVENTION	COMMUNICATION
E-MAIL (As Per Record)	gnanaraj.134@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	08/04/2022

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Application Details	
APPLICATION NUMBER	202241019187
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	31/03/2022
APPLICANT NAME	**1 . DR.T.VIGNESH** **2 . DR. M.PREETHA** **3 . DR.A.VASUDEVAN** **4 . PROF.S. BALAJI** **5 . PROF. R.R.RAMESH BABU** **6 . DR. S.PERUMAL** **7 . PROF.ANOOP S R** **8 . PROF.G.SATHISH KUMAR** **9 . DR.M.THIRUCHITRAMBALAM** **10 . DR.M.G.KAVITHA** **11 . DR. K.SIVAKUMAR** **12 . PROF. NAGARAJ.V**
TITLE OF INVENTION	A SECURE TASK SCHEDULING SYSTEM FOR DEEP NEURAL NETWORK USING SOFTMAX IN SMART MANUFACTURING
FIELD OF INVENTION	COMMUNICATION
E-MAIL (As Per Record)	gnanaraj.134@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	08/04/2022

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Application Details	
APPLICATION NUMBER	202241012635
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	08/03/2022
APPLICANT NAME	**1 . Dr. A. ELAYAPERUMAL** **2 . Dr. A. RAMESH KUMAR** **3 . Dr. B. ASHOK KUMAR** **4 . Dr. S. AJITH ARUL DANIEL** **5 . Mr. S. DAISON STALLON** **6 . Dr. RAJESWARI VISWANATHAN** **7 . Mr. R. GURUSWAMY** **8 . Ms. BABITA GUPTA** **9 . Dr. C. GNANAVEL** **10 . Mr. N. NAGARAJAN**
TITLE OF INVENTION	A DRONE BASED AUTOMATIC AND AUTONOMOUS THERMAL STUDY ON SENSITIVE AND ISOLATED ELECTRICAL EQUIPMENT
FIELD OF INVENTION	MECHANICAL ENGINEERING
E-MAIL (As Per Record)	profelaya@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	18/03/2022

Application Status	
APPLICATION STATUS	**Awaiting Request for Examination**

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Application Details	
APPLICATION NUMBER	202241015299
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	20/03/2022
APPLICANT NAME	**Dr. U.Ubaidulla**
TITLE OF INVENTION	SURFACE MODIFIED NANOPARTICLES FOR THE TREATMENT OF CANCER AND METHOD OF PREPARATION THEREOF
FIELD OF INVENTION	CHEMICAL
E-MAIL (As Per Record)	chempatent1@gmail.com
ADDITIONAL-EMAIL (As Per Record)	chempatent1@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	20/03/2022
PUBLICATION DATE (U/S 11A)	25/03/2022
REPLY TO FER DATE	24/07/2022

Application Status	
APPLICATION STATUS	**Reply Filed. Application in amended examination**

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Application Details	
APPLICATION NUMBER	202241013636
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	13/03/2022
APPLICANT NAME	**1 . Dr. Vijayalakshmi. P** **2 . Dr. Praveen Kumar Misra** **3 . Dr. N. Amuthan** **4 . Dr. Vartika Kulshrestha** **5 . Dr. M Sathya** **6 . Prof. Shivananda S** **7 . Dr. Richa** **8 . Mrs. M. Lakshaga Jyothi**
TITLE OF INVENTION	Smart Surveillance System with Facial Recognition and Image-Processing Approach using AI
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	mail2patentipr@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	25/03/2022

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APPLICATION STATUS	**Awaiting Request for Examination**

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Application Details	
APPLICATION NUMBER	202241012016
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	05/03/2022
APPLICANT NAME	**1 . Dr. C. Shanthi** **2 . Dr. K. Sharmila** **3 . Dr. S. Kamalakkannan** **4 . Dr. T. Kamalakannan** **5 . Dr. R. Devi** **6 . Dr. J. Jebathangam** **7 . Dr. C. Meera** **8 . P. Kavitha** **9 . Dr. Deveshpratap Singh** **10 . Arulkumar N**
TITLE OF INVENTION	"A SMART ROAD CLEANING SWEEPER MACHINE DRIVEN BY ARTIFICIAL INTELLIGENCE AND TECHNIQUE."
FIELD OF INVENTION	MECHANICAL ENGINEERING
E-MAIL (As Per Record)	iprmaulesh@outlook.com
ADDITIONAL-EMAIL (As Per Record)	ipindia111@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	25/03/2022

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Application Details	
APPLICATION NUMBER	202211020517
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	05/04/2022
APPLICANT NAME	**1 . Rakesh Kumar Bachheti** **2 . Archana Bachheti** **3 . Dr.L.Karikalan** **4 . Sankarsan Sahoo** **5 . Chandan Patra** **6 . Dr.D.Revathi** **7 . Subhasish Mohanty** **8 . Dr Rupesh Ramesh Deore** **9 . Dr. Durgaprasad Gangodkar** **10 . Dr Priyabrata Adhikary** **11 . Dr Susmita Kundu** **12 . Dr. Prince Prashant Sharma**
TITLE OF INVENTION	ALTERNATE ELECTROLYTE GEL FOR RECHARGEABLE BATTERY
FIELD OF INVENTION	ELECTRICAL
E-MAIL (As Per Record)	bachheti.archana@gmail.com
ADDITIONAL-EMAIL (As Per Record)	rkbachheti@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	15/04/2022

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APPLICATION STATUS	**Awaiting Request for Examination**

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Application Details	
APPLICATION NUMBER	202241021431
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	11/04/2022
APPLICANT NAME	**1 . manoharan sudharsan** **2 . M Sudharsan** **3 . Dr.G.Thailambal**
TITLE OF INVENTION	A Modified Learning Scheme for Detecting Alzheimer's Disease Using Brain MRI Images
FIELD OF INVENTION	CHEMICAL
E-MAIL (As Per Record)	sudharsanms15@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	22/04/2022

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Application Details	
APPLICATION NUMBER	202241021422
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	11/04/2022
APPLICANT NAME	**1 . manoharan sudharsan** **2 . K PRAKASH** **3 . Dr.S.Saradha**
TITLE OF INVENTION	Intelligent MRI Liver Images based Cirrhosis Disease Identification using Modified Learning Principle
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	sudharsanms15@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	22/04/2022

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APPLICATION STATUS	**Awaiting Request for Examination**

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Application Details	
APPLICATION NUMBER	202241024740
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	27/04/2022
APPLICANT NAME	**VELS INSTITUTE OF SCIENCE, TECHNOLOGY AND ADVANCED STUDIES (VISTAS)**
TITLE OF INVENTION	SMART ALERT SYSTEM FOR BLOOD DISORDER THEREOF
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	27/04/2022
PUBLICATION DATE (U/S 11A)	13/05/2022

Application Status	
APPLICATION STATUS	**FER Issued, Reply not Filed**

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Application Details	
APPLICATION NUMBER	202241023473
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	21/04/2022
APPLICANT NAME	**Vels Institute of Science, Technology and Advanced Studies (VISTAS)**
TITLE OF INVENTION	IMPLEMENTATION OF FUZZY MODULAR LATTICE ORDERED M GROUP IN FINGERPRINT IMAGE PROCESSING
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	21/04/2022
PUBLICATION DATE (U/S 11A)	13/05/2022

Application Status	
APPLICATION STATUS	**FER Issued, Reply not Filed**

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Application Details	
APPLICATION NUMBER	202241020157
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	04/04/2022
APPLICANT NAME	**VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES(VISTAS)**
TITLE OF INVENTION	PRODUCTION OF BIOGAS FROM TANNERY EFFLUENT USING PRAWN SHELL AS AN ADSORBENT
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	04/04/2022
PUBLICATION DATE (U/S 11A)	22/04/2022

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APPLICATION STATUS	**FER Issued, Reply not Filed**

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Application Details	
APPLICATION NUMBER	202241024740
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	27/04/2022
APPLICANT NAME	**VELS INSTITUTE OF SCIENCE, TECHNOLOGY AND ADVANCED STUDIES (VISTAS)**
TITLE OF INVENTION	SMART ALERT SYSTEM FOR BLOOD DISORDER THEREOF
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	27/04/2022
PUBLICATION DATE (U/S 11A)	13/05/2022

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Application Details	
APPLICATION NUMBER	202241020204
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	04/04/2022
APPLICANT NAME	**VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES(VISTAS)**
TITLE OF INVENTION	NEW APPROACH ON PLATELET COUNT INDICES AS PREDICTIVE BIOMARKERS TO DETECT THE VASCULAR COMPLICATIONS IN TYPE 2 DIABETES MELLITUS
FIELD OF INVENTION	BIOTECHNOLOGY
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	04/04/2022
PUBLICATION DATE (U/S 11A)	22/04/2022

Application Status	
APPLICATION STATUS	**Application Awaiting Examination**

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Application Details	
APPLICATION NUMBER	202241020207
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	04/04/2022
APPLICANT NAME	**Vels Institute of Science, Technology and Advanced Studies (VISTAS)**
TITLE OF INVENTION	ANTHOCYANIN BASED BIOSENSOR AS FOOD QUALITY INDICATOR
FIELD OF INVENTION	FOOD
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	04/04/2022
PUBLICATION DATE (U/S 11A)	22/04/2022

Application Status	
APPLICATION STATUS	**Application Awaiting Examination**

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Application Details	
APPLICATION NUMBER	202241020223
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	04/04/2022
APPLICANT NAME	**Vels Institute of Science, Technology and Advanced Studies (VISTAS)**
TITLE OF INVENTION	A FRAMEWORK FOR OPTIMAL SELECTION OF CLOUD SERVICE PROVIDER USING MULTI CRITERIA DECISION MAKING APPROACH
FIELD OF INVENTION	COMMUNICATION
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	04/04/2022
PUBLICATION DATE (U/S 11A)	22/04/2022

Application Status	
APPLICATION STATUS	**FER Issued, Reply not Filed**

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Application Details	
APPLICATION NUMBER	202241020227
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	04/04/2022
APPLICANT NAME	**Vels Institute of Science, Technology and Advanced Studies (VISTAS)**
TITLE OF INVENTION	DESIGN AND DEVELOPMENT OF LIFITEGRAST LOADED CONTACT LENSES FOR DRY EYE SYNDROME
FIELD OF INVENTION	PHYSICS
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	04/04/2022
PUBLICATION DATE (U/S 11A)	22/04/2022

Application Status	
APPLICATION STATUS	**FER Issued, Reply not Filed**

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Application Details	
APPLICATION NUMBER	202241020230
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	04/04/2022
APPLICANT NAME	**Vels Institute of Science, Technology and Advanced Studies (VISTAS)**
TITLE OF INVENTION	DIGIANGADI-AN APP FOCUSED ON SMALL SHOP KEEPERS
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	04/04/2022
PUBLICATION DATE (U/S 11A)	22/04/2022

Application Status	
APPLICATION STATUS	**FER Issued, Reply not Filed**

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Application Details	
APPLICATION NUMBER	202241022050
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	13/04/2022
APPLICANT NAME	**VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES(VISTAS)**
TITLE OF INVENTION	A FRAMEWORK FOR BREAST CANCER PREDICTION
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	13/04/2022
PUBLICATION DATE (U/S 11A)	29/04/2022

Application Status	
APPLICATION STATUS	**FER Issued, Reply not Filed**

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Application Details	
APPLICATION NUMBER	202241022049
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	13/04/2022
APPLICANT NAME	**VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES(VISTAS)**
TITLE OF INVENTION	IGDRPT
FIELD OF INVENTION	PHYSICS
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	13/04/2022
PUBLICATION DATE (U/S 11A)	29/04/2022

Application Status	
APPLICATION STATUS	**FER Issued, Reply not Filed**

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Application Details	
APPLICATION NUMBER	202241022052
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	13/04/2022
APPLICANT NAME	**VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES(VISTAS)**
TITLE OF INVENTION	IOT BASED SENSOR ENABLED SYSTEM PREVENTING CYBER CRIME AGAINST CHILD AND WOMEN
FIELD OF INVENTION	COMMUNICATION
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	13/04/2022
PUBLICATION DATE (U/S 11A)	29/04/2022

Application Status	
APPLICATION STATUS	**FER Issued, Reply not Filed**

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Application Details	
APPLICATION NUMBER	202241022694
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	18/04/2022
APPLICANT NAME	**VELS INSTITUTE OF SCIENCE, TECHNOLOGY AND ADVANCED STUDIES (VISTAS)**
TITLE OF INVENTION	DIABETICS PREDICTION USING MACHINE LEARNING
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	18/04/2022
PUBLICATION DATE (U/S 11A)	06/05/2022

Application Status	
APPLICATION STATUS	**FER Issued, Reply not Filed**

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Application Details	
APPLICATION NUMBER	202241023473
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	21/04/2022
APPLICANT NAME	**Vels Institute of Science, Technology and Advanced Studies (VISTAS)**
TITLE OF INVENTION	IMPLEMENTATION OF FUZZY MODULAR LATTICE ORDERED M GROUP IN FINGERPRINT IMAGE PROCESSING
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	21/04/2022
PUBLICATION DATE (U/S 11A)	13/05/2022

Application Status	
APPLICATION STATUS	**FER Issued, Reply not Filed**

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Application Details	
APPLICATION NUMBER	202241023479
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	21/04/2022
APPLICANT NAME	**Vels Institute of Science, Technology and Advanced Studies (VISTAS)**
TITLE OF INVENTION	DETECTION OF HIPPOCAMPUS REGION FOR ALZHEIMER DIAGNOSIS FROM 3D BRAIN MRI IMAGES USING DIFFERENT IMAGE SEGMENTATION TECHNIQUES
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	21/04/2022
PUBLICATION DATE (U/S 11A)	13/05/2022
REPLY TO FER DATE	08/12/2022

Application Status	
APPLICATION STATUS	**Reply Filed. Application in amended examination**

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Application Details	
APPLICATION NUMBER	202241023472
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	21/04/2022
APPLICANT NAME	**Vels Institute of Science, Technology and Advanced Studies (VISTAS)**
TITLE OF INVENTION	COPY-MOVE FORGERY DETECTION BASED ON KEYPOINT CLUSTERING AND SIMILAR NEIGHBORHOOD SEARCH ALGORITHM
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	21/04/2022
PUBLICATION DATE (U/S 11A)	13/05/2022

Application Status	
APPLICATION STATUS	**FER Issued, Reply not Filed**

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Application Details	
APPLICATION NUMBER	202241024728
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	27/04/2022
APPLICANT NAME	**Vels Institute of Science, Technology and Advanced Studies (VISTAS)**
TITLE OF INVENTION	WULF-AN ARTIFICIAL INTELLIGENCE BASED AUTOMATED TRADING PLATFORM
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	27/04/2022
PUBLICATION DATE (U/S 11A)	13/05/2022

Application Status	
APPLICATION STATUS	**FER Issued, Reply not Filed**

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Application Details	
APPLICATION NUMBER	202241024729
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	27/04/2022
APPLICANT NAME	**VELS INSTITUTE OF SCIENCE, TECHNOLOGY AND ADVANCED STUDIES (VISTAS)**
TITLE OF INVENTION	TWITTER BASED SENTIMENT ANALYSIS USING MACHINE LEARNING
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	27/04/2022
PUBLICATION DATE (U/S 11A)	13/05/2022

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Application Details	
APPLICATION NUMBER	202241024740
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	27/04/2022
APPLICANT NAME	**VELS INSTITUTE OF SCIENCE, TECHNOLOGY AND ADVANCED STUDIES (VISTAS)**
TITLE OF INVENTION	SMART ALERT SYSTEM FOR BLOOD DISORDER THEREOF
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	27/04/2022
PUBLICATION DATE (U/S 11A)	13/05/2022

Application Status	
APPLICATION STATUS	**FER Issued, Reply not Filed**

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Application Details	
APPLICATION NUMBER	202241024743
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	27/04/2022
APPLICANT NAME	**VELS INSTITUTE OF SCIENCE, TECHNOLOGY AND ADVANCED STUDIES (VISTAS)**
TITLE OF INVENTION	RECOGNIZING AND DETECTING THE MENTAL HEALTH OF QUARANTINE PATIENTS
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	27/04/2022
PUBLICATION DATE (U/S 11A)	13/05/2022

Application Status	
APPLICATION STATUS	**FER Issued, Reply not Filed**

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Application Details	
APPLICATION NUMBER	202241024697
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	27/04/2022
APPLICANT NAME	**Vels Institute of Science, Technology and Advanced Studies (VISTAS)**
TITLE OF INVENTION	DRIVER'S SAFETY MANAGEMENT SYSTEM FOR COMMERCIAL PURPOSE USING IOT
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	27/04/2022
PUBLICATION DATE (U/S 11A)	13/05/2022

Application Status	
APPLICATION STATUS	**FER Issued, Reply not Filed**

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Application Details	
APPLICATION NUMBER	202241024963
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	28/04/2022
APPLICANT NAME	**VELS INSTITUTE OF SCIENCE, TECHNOLOGY AND ADVANCED STUDIES (VISTAS)**
TITLE OF INVENTION	DESIGN OF CHARGER STATION USING DC SMART GRID FOR ELECTRIC VEHICLE APPLICATION
FIELD OF INVENTION	ELECTRICAL
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	28/04/2022
PUBLICATION DATE (U/S 11A)	13/05/2022
REPLY TO FER DATE	26/12/2022

Application Status	
APPLICATION STATUS	**Reply Filed. Application in amended examination**

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Application Details	
APPLICATION NUMBER	202241024959
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	28/04/2022
APPLICANT NAME	**VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCE STUDIES(VISTAS)**
TITLE OF INVENTION	COVID-19 DISEASE DIAGNOSIS USING DEEP LEARNING METHODS
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	28/04/2022
PUBLICATION DATE (U/S 11A)	13/05/2022
REPLY TO FER DATE	27/12/2022

Application Status	
APPLICATION STATUS	**Reply Filed. Application in amended examination**

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Application Details	
APPLICATION NUMBER	202241024332
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	25/04/2022
APPLICANT NAME	**1 . Mrs.S.Varshavardhini** **2 . Ms.Lipsa Das** **3 . Mrs. S.Deepa** **4 . Mrs. R. Naleiny** **5 . Mr. Srinuvasarao Sanapala** **6 . Dr. P.E.Elango** **7 . Mr. K. Madheswaran** **8 . Dr.R.Balakrishna** **9 . Ms.Tejaswini M R** **10 . Dr.S.Prabhu**
TITLE OF INVENTION	IOT AND AL - BASED SELF-SYNCHRONIZED DRONES'S NETWORK USING CLUSTER-BASED SWARM INTELLIGENCE METHOD
FIELD OF INVENTION	MECHANICAL ENGINEERING
E-MAIL (As Per Record)	senanipindia@gmail.com
ADDITIONAL-EMAIL (As Per Record)	admin@senanip.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	06/05/2022

Application Status	
APPLICATION STATUS	**Awaiting Request for Examination**

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Application Details	
APPLICATION NUMBER	202241027072
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	11/05/2022
APPLICANT NAME	**VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES(VISTAS)**
TITLE OF INVENTION	RICE DOCTOR: DISEASE PREDICTION WITH IMPROVED SUPPORT VECTOR MACHINE IN RICE PLANT THROUGH MOBILE AP
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	11/05/2022
PUBLICATION DATE (U/S 11A)	20/05/2022
REPLY TO FER DATE	20/12/2022

Application Status	
APPLICATION STATUS	**Reply Filed. Application in amended examination**

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Application Details	
APPLICATION NUMBER	202241027074
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	11/05/2022
APPLICANT NAME	**VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES(VISTAS)**
TITLE OF INVENTION	A HYBRID MACHINE LEARNING PREDICTIVE MODEL FOR HEART DISEASE WITH HYPER PARAMETER OPTIMIZATION
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	11/05/2022
PUBLICATION DATE (U/S 11A)	20/05/2022

Application Status	
APPLICATION STATUS	**FER Issued, Reply not Filed**

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Application Details	
APPLICATION NUMBER	202241027080
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	11/05/2022
APPLICANT NAME	**VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES(VISTAS)**
TITLE OF INVENTION	STRATEGIC DECISION SUPPORT SYSTEM FOR HIGHER EDUCATIONAL INSTITUTIONS USING MACHINE LEARNING
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	11/05/2022
PUBLICATION DATE (U/S 11A)	20/05/2022

Application Status	
APPLICATION STATUS	**FER Issued, Reply not Filed**

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Application Details	
APPLICATION NUMBER	202241033639
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	13/06/2022
APPLICANT NAME	**VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES(VISTAS)**
TITLE OF INVENTION	OPTIMISED MOBILE APPLICATION FOR OFFLINE HANDWRITING DIGIT RECOGNITION USING DEEP LEARNING
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	13/06/2022
PUBLICATION DATE (U/S 11A)	17/06/2022

Application Status	
APPLICATION STATUS	**FER Issued, Reply not Filed**

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Application Details	
APPLICATION NUMBER	202241033637
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	13/06/2022
APPLICANT NAME	**VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES(VISTAS)**
TITLE OF INVENTION	CHRONIC DISEASES PREDICTION BASED ON INTERNET OF THINGS USING OPTIMIZED CORRELATIONAL NEURAL NETWORK
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	13/06/2022
PUBLICATION DATE (U/S 11A)	17/06/2022

Application Status	
APPLICATION STATUS	**FER Issued, Reply not Filed**

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Application Details	
APPLICATION NUMBER	202241033667
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	13/06/2022
APPLICANT NAME	**VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES(VISTAS)**
TITLE OF INVENTION	CLOUD-SCOPE: A MODERN PATIENT MONITORING AND ANALYSIS SYSTEM
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	13/06/2022
PUBLICATION DATE (U/S 11A)	17/06/2022

Application Status	
APPLICATION STATUS	**FER Issued, Reply not Filed**

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Application Details	
APPLICATION NUMBER	202241028809
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	19/05/2022
APPLICANT NAME	**VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES(VISTAS)**
TITLE OF INVENTION	PATHOPHYSIOLOGY DIAGNOSIS OF PARKINSON''S DISEASE USINGDEEP LEARNING TECHNIQUES
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	19/05/2022
PUBLICATION DATE (U/S 11A)	27/05/2022

Application Status	
APPLICATION STATUS	**FER Issued, Reply not Filed**

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Application Details	
APPLICATION NUMBER	202241028811
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	19/05/2022
APPLICANT NAME	**VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES(VISTAS)**
TITLE OF INVENTION	DARK-AN ESOTERIC SEARCH ENGINE USING PYTHON
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	19/05/2022
PUBLICATION DATE (U/S 11A)	27/05/2022

Application Status	
APPLICATION STATUS	**FER Issued, Reply not Filed**

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Application Details	
APPLICATION NUMBER	202241028813
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	19/05/2022
APPLICANT NAME	**VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES(VISTAS)**
TITLE OF INVENTION	IOT BASED FIRE DETECTION AND ALERT SYSTEM
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	19/05/2022
PUBLICATION DATE (U/S 11A)	27/05/2022

Application Status	
APPLICATION STATUS	**FER Issued, Reply not Filed**

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Application Details	
APPLICATION NUMBER	202241028815
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	19/05/2022
APPLICANT NAME	**VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES(VISTAS)**
TITLE OF INVENTION	AN EFFICIENT MULTILEVEL HUMAN AUTHENTICATION THROUGH THE STRUCTURAL PATTERNS OF FINGERPRINT AND EYE
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	19/05/2022
PUBLICATION DATE (U/S 11A)	27/05/2022

Application Status	
APPLICATION STATUS	**FER Issued, Reply not Filed**

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Application Details	
APPLICATION NUMBER	202241028817
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	19/05/2022
APPLICANT NAME	**VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES(VISTAS)**
TITLE OF INVENTION	HUMAN LESS AUTOMATED MARKETS WITH RFID TECHNOLOGY
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	19/05/2022
PUBLICATION DATE (U/S 11A)	27/05/2022

Application Status	
APPLICATION STATUS	**FER Issued, Reply not Filed**

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Application Details	
APPLICATION NUMBER	202241031114
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	31/05/2022
APPLICANT NAME	**Vels Institute of Science, Technology and Advanced Studies (VISTAS)**
TITLE OF INVENTION	SMART WEARABLE SLEEPWALKING ALERT SYSTEM
FIELD OF INVENTION	ELECTRONICS
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	31/05/2022
PUBLICATION DATE (U/S 11A)	10/06/2022

Application Status	
APPLICATION STATUS	**FER Issued, Reply not Filed**

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Application Details	
APPLICATION NUMBER	202241031116
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	31/05/2022
APPLICANT NAME	**Vels Institute of Science, Technology and Advanced Studies (VISTAS)**
TITLE OF INVENTION	PROGNOSTICATION OF COVID 19 SEVERITY USING MACHINE LEARNING WITH CONVOLUTIONAL NEURAL NETWORK
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	31/05/2022
PUBLICATION DATE (U/S 11A)	10/06/2022

Application Status	
APPLICATION STATUS	**FER Issued, Reply not Filed**

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Application Details	
APPLICATION NUMBER	202241026088
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	05/05/2022
APPLICANT NAME	**1 . Dr.Ishwarya M.V** **2 . Dr.P.Neelaveni** **3 . Mrs. S. Jayashree Ananth** **4 . A. Vani Lavanya** **5 . Dr. N. Kumar** **6 . Dr.N.Prabakaran** **7 . Mr.S.Thirumal** **8 . Mr A Manikandan** **9 . Ms N Sureka** **10 . Mr Prabu K**
TITLE OF INVENTION	IOT BASED ATTENTION DEFICIT HYPERACTIVITY DISORDER DETECTION TREATMENT OF CHILDRENS
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	ishwaryamv.cse@act.edu.in
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	20/05/2022

Application Status	
APPLICATION STATUS	**Awaiting Request for Examination**

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Application Details	
APPLICATION NUMBER	202241030062
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	25/05/2022
APPLICANT NAME	**1 . Mrs.S.Vijitha** **2 . Dr. Saket Agarwal** **3 . Dr. Anjan Kumar K N** **4 . Dr. Vivek Goel** **5 . Dr. Syed Azahad** **6 . Dr. Devvret Verma** **7 . Mr. Anandaraj Shunmugam**
TITLE OF INVENTION	Fully Automatic assistance system based on Internet of things for effective crowd management
FIELD OF INVENTION	MECHANICAL ENGINEERING
E-MAIL (As Per Record)	vijisri.27@gmail.com
ADDITIONAL-EMAIL (As Per Record)	vijisri.27@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	17/06/2022

Application Status	
APPLICATION STATUS	**Awaiting Request for Examination**

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Application Details	
APPLICATION NUMBER	202241025379
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	30/04/2022
APPLICANT NAME	**1 . SENTHIL KUMAR R** **2 . KRISHNARAJ.S** **3 . MUGANDA MUNIR MANINI** **4 . PRAVAT KUMAR SWAIN** **5 . DR. NIMISH H. VASOYA** **6 . DR.S.PRATIMA KUMARI** **7 . RAVINDRAKUMAR HANMANT YADAV** **8 . S KRISHNAKUMAR** **9 . DR. M.TAMILARASI** **10 . DR.C.GNANAVEL** **11 . PREM CHANDRA** **12 . PRASHANT BABURAO KHARAT**
TITLE OF INVENTION	DESIGN OF SOLAR THERMAL POWER INTEGRATION SYSTEMS TO INCREASE THE EFFICIENCY OF RENEWABLE ENERGY RESOURCES
FIELD OF INVENTION	ELECTRICAL
E-MAIL (As Per Record)	sgowthami12@gmail.com
ADDITIONAL-EMAIL (As Per Record)	sgowthami12@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	13/05/2022

Application Status	
APPLICATION STATUS	**Awaiting Request for Examination**

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Application Details	
APPLICATION NUMBER	202241031584
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	02/06/2022
APPLICANT NAME	**VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES(VISTAS)**
TITLE OF INVENTION	EASY LAUNDRY BOARD
FIELD OF INVENTION	CHEMICAL
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	02/06/2022
PUBLICATION DATE (U/S 11A)	10/06/2022

Application Status	
APPLICATION STATUS	**FER Issued, Reply not Filed**

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Application Details	
APPLICATION NUMBER	202241031595
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	02/06/2022
APPLICANT NAME	**VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES(VISTAS)**
TITLE OF INVENTION	AGILE SPA COMB
FIELD OF INVENTION	MECHANICAL ENGINEERING
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	02/06/2022
PUBLICATION DATE (U/S 11A)	10/06/2022

Application Status	
APPLICATION STATUS	**FER Issued, Reply not Filed**

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Application Details	
APPLICATION NUMBER	202241033676
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	13/06/2022
APPLICANT NAME	**Vels Institute of Science, Technology and Advanced Studies (VISTAS)**
TITLE OF INVENTION	INTRUSION DETECTION SYSTEM USING CLUSTER BASED ABAC SCHEME
FIELD OF INVENTION	COMMUNICATION
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	13/06/2022
PUBLICATION DATE (U/S 11A)	17/06/2022

Application Status	
APPLICATION STATUS	**FER Issued, Reply not Filed**

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Design Application Details

Application Number:

365993-001

Cbr Number:

200047

Cbr Date:

13/06/2022 15:38:11

Applicant Name:

VELS INSTITUTE OF SCIENCE TECHNOLOGY AND ADVANCE STUDIES (VISTAS)

Design Application Status

Application Status:

Examination Report has been Generated ,Online Reply Document Recived(FER generated on 29/09/2022)

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Ministry of Commerce and Industry

Design Application Details

Application Number:

365992-001

Cbr Number:

200046

Cbr Date:

13/06/2022 15:34:48

Applicant Name:

VELS INSTITUTE OF SCIENCE TECHNOLOGY AND ADVANCE STUDIES (VISTAS)

Design Application Status

Application Status:

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GEOGRAPHICAL INDICATIONS

Application Details	
APPLICATION NUMBER	202241033431
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	10/06/2022
APPLICANT NAME	**1 . Dr M Parthasarathy** **2 . Dr. Anand Kumar Gummadi** **3 . Mr. Ganeshkumar P** **4 . Dr L Malleswara Rao** **5 . Mr.Thiru. B.Deepan Kumar** **6 . Dr. A. Akila** **7 . Dr.A.Ramu** **8 . Dr. Harikumar Pallathadka** **9 . Ms.P.S.Chandel** **10 . Dr. Sachin Hemraj Dhawankar**
TITLE OF INVENTION	Dye molecules changed the shape, color, texture, and electrical charge of sulphamic acid crystals as they grew
FIELD OF INVENTION	PHYSICS
E-MAIL (As Per Record)	senanipindia@gmail.com
ADDITIONAL-EMAIL (As Per Record)	admin@senanip.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	17/06/2022

Application Status	
APPLICATION STATUS	**Awaiting Request for Examination**

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Application Details	
APPLICATION NUMBER	202241035068
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	19/06/2022
APPLICANT NAME	**1 . Dr A M Mahaboob Basha** **2 . T. Lavanya Kumari** **3 . Dr. Kesavulu Poola** **4 . Dr.N.Vijayanand** **5 . Dr. Raji Rajan** **6 . Dr.Jainendra Kumar Patel** **7 . Dr.Anupam Kumar Tiwari** **8 . Dr. Niket Shukla** **9 . Mr.Basavaraj S Mammani** **10 . Mr.Pankaj Kumar** **11 . Mr.S. Chandra Sekhar**
TITLE OF INVENTION	Mediating Effect of Customer Satisfaction on the Relationship between Service Quality and Customer Loyalty in Automobile Industry: SERVQUAL Model
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	hodmba@necg.ac.in
ADDITIONAL-EMAIL (As Per Record)	drbasha3@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	24/06/2022

Application Status	
APPLICATION STATUS	**Awaiting Request for Examination**

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Application Details	
APPLICATION NUMBER	202241037204
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	29/06/2022
APPLICANT NAME	**1 . Dr. ISHWARYA M. V** **2 . Dr. P. NEELAVENI** **3 . Ms. S. HEMAVATHI** **4 . N. GOPINATH** **5 . Dr. N. MEENAKSHI** **6 . Mrs JAYASHREE ANANTH** **7 . Dr. N. KUMAR** **8 . Dr. G. SONIYA PRIYATHARSINI** **9 . Dr. SURESH ANAND. M** **10 . Mr. S. VENKAT**
TITLE OF INVENTION	IOT BASED WEARABLE HEALTH MONITORING AND ASSISTED LIVING OF ELDERLY PEOPLE
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	ishwaryamv.cse@act.edu.in
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	08/07/2022

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APPLICATION STATUS	**Awaiting Request for Examination**

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Application Details	
APPLICATION NUMBER	202241039048
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	07/07/2022
APPLICANT NAME	**VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES (VISTAS)**
TITLE OF INVENTION	GENERATION OF ELECTRICAL ENERGY USING SOLAR PAINT
FIELD OF INVENTION	MECHANICAL ENGINEERING
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	07/07/2022
PUBLICATION DATE (U/S 11A)	15/07/2022

Application Status	
APPLICATION STATUS	**FER Issued, Reply not Filed**

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Application Details	
APPLICATION NUMBER	202241039050
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	07/07/2022
APPLICANT NAME	**VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES (VISTAS)**
TITLE OF INVENTION	SPEED CONTROL OF SENSORLESS BLDC MOTOR USING ANFIS CONTROLLER
FIELD OF INVENTION	ELECTRICAL
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	07/07/2022
PUBLICATION DATE (U/S 11A)	15/07/2022

Application Status	
APPLICATION STATUS	**FER Issued, Reply not Filed**

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Application Details	
APPLICATION NUMBER	202241039057
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	07/07/2022
APPLICANT NAME	**VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES (VISTAS)**
TITLE OF INVENTION	SUSTAINABLE BIOCEMENT PRODUCTION USING MICROBIAL CONSORTIUM
FIELD OF INVENTION	CHEMICAL
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	07/07/2022
PUBLICATION DATE (U/S 11A)	15/07/2022

Application Status	
APPLICATION STATUS	**Application Awaiting Examination**

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Application Details	
APPLICATION NUMBER	202241039054
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	07/07/2022
APPLICANT NAME	**VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES (VISTAS)**
TITLE OF INVENTION	ONLINE VOICE BASED SECURITY AND AUTOMATION SYSTEM FOR REAL TIME APPLICATION
FIELD OF INVENTION	COMMUNICATION
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	07/07/2022
PUBLICATION DATE (U/S 11A)	15/07/2022

Application Status	
APPLICATION STATUS	**FER Issued, Reply not Filed**

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Application Details	
APPLICATION NUMBER	202241039064
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	07/07/2022
APPLICANT NAME	**VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES (VISTAS)**
TITLE OF INVENTION	SECURE CLOUD SERVICE PROVISIONING FOR E-HEALTH APPLICATION SYSTEM
FIELD OF INVENTION	COMMUNICATION
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	07/07/2022
PUBLICATION DATE (U/S 11A)	15/07/2022

Application Status	
APPLICATION STATUS	**FER Issued, Reply not Filed**

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Application Details	
APPLICATION NUMBER	202241039058
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	07/07/2022
APPLICANT NAME	**VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES (VISTAS)**
TITLE OF INVENTION	ENERGY HARVESTING USING HUMAN MOVEMENT BY FOOT PRESSURE FOR LOW POWER APPLICATIONS
FIELD OF INVENTION	MECHANICAL ENGINEERING
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	07/07/2022
PUBLICATION DATE (U/S 11A)	15/07/2022

Application Status	
APPLICATION STATUS	**FER Issued, Reply not Filed**

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Application Details	
APPLICATION NUMBER	202241039052
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	07/07/2022
APPLICANT NAME	**VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES (VISTAS)**
TITLE OF INVENTION	DESIGN OF PHASE SHIFT FULL BRIDGE CONVERTER FOR ELECTRIC VEHICLE CHARGING
FIELD OF INVENTION	ELECTRICAL
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	07/07/2022
PUBLICATION DATE (U/S 11A)	15/07/2022

Application Status	
APPLICATION STATUS	**FER Issued, Reply not Filed**

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Application Details	
APPLICATION NUMBER	202241039065
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	07/07/2022
APPLICANT NAME	**VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES (VISTAS)**
TITLE OF INVENTION	STORAGE OF ELECTRICAL ENERGY EXTRACTED FROM NOISE POLLUTION FROM PUBLIC GATHERINGS
FIELD OF INVENTION	MECHANICAL ENGINEERING
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	07/07/2022
PUBLICATION DATE (U/S 11A)	15/07/2022

Application Status	
APPLICATION STATUS	**FER Issued, Reply not Filed**

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Application Details	
APPLICATION NUMBER	202241039062
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	07/07/2022
APPLICANT NAME	**VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES (VISTAS)**
TITLE OF INVENTION	ECONOMIC BATTERY CHARGING SYSTEM USING VEHICLE COVER THIN-FILM SOLAR PANEL
FIELD OF INVENTION	ELECTRICAL
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	07/07/2022
PUBLICATION DATE (U/S 11A)	15/07/2022

Application Status	
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Application Details	
APPLICATION NUMBER	202241039059
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	07/07/2022
APPLICANT NAME	**VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES (VISTAS)**
TITLE OF INVENTION	A HYBRID WRAPPER APPROACH FOR OPTIMAL FEATURE SELECTION BASED ON A NOVEL MULTI-OBJECTIVE TECHNIQUE
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	07/07/2022
PUBLICATION DATE (U/S 11A)	15/07/2022

Application Status	
APPLICATION STATUS	**FER Issued, Reply not Filed**

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Design Application Details

Application Number:

368380-001

Cbr Number:

200087

Cbr Date:

27/07/2022 14:39:59

Applicant Name:

VELS INSTITUTE OF SCIENCE TECHNOLOGY AND ADVANCE STUDIES (VISTAS)

Design Application Status

Application Status:

Examination Report has been Generated ,Case is Waiting for Examination Report Reply (FER generated on 31/10/2022)

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Design Application Details

Application Number:

368379-001

Cbr Number:

200086

Cbr Date:

27/07/2022 14:37:05

Applicant Name:

VELS INSTITUTE OF SCIENCE TECHNOLOGY AND ADVANCE STUDIES (VISTAS)

Design Application Status

Application Status:

Examination Report has been Generated ,Case is Waiting for Examination Report Reply (FER generated on 29/11/2022)

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Application Details	
APPLICATION NUMBER	202241042945
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	27/07/2022
APPLICANT NAME	**Vels Institute of Science, Technology and Advanced Studies (VISTAS)**
TITLE OF INVENTION	IMPLEMENTATION OF GENERALIZED ALMOST DISTRIBUTIVE FUZZY LATTICES IN BARCODE, QR CODE IMAGE PROCESSING
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	27/07/2022
PUBLICATION DATE (U/S 11A)	05/08/2022

Application Status	
APPLICATION STATUS	**FER Issued, Reply not Filed**

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Application Details	
APPLICATION NUMBER	202241042946
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	27/07/2022
APPLICANT NAME	**Vels Institute of Science, Technology and Advanced Studies (VISTAS)**
TITLE OF INVENTION	SPEECH CONTROLLED HOME AUTOMATION WITH RASPBERRY PI USING IOT TECHNOLOGY
FIELD OF INVENTION	COMMUNICATION
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	27/07/2022
PUBLICATION DATE (U/S 11A)	05/08/2022

Application Status	
APPLICATION STATUS	**FER Issued, Reply not Filed**

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Application Details	
APPLICATION NUMBER	202241042943
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	27/07/2022
APPLICANT NAME	**Vels Institute of Science, Technology and Advanced Studies (VISTAS)**
TITLE OF INVENTION	HYBRID LION-GA OPTIMIZATION ALGORITHM USING PYTHON FOR EFFECTIVE TASK SCHEDULING
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	27/07/2022
PUBLICATION DATE (U/S 11A)	05/08/2022

Application Status	
APPLICATION STATUS	**FER Issued, Reply not Filed**

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Application Details	
APPLICATION NUMBER	202241039514
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	09/07/2022
APPLICANT NAME	**1 . Dr. Kolla Narendra** **2 . Dr. Nana N Shejwal** **3 . Dr. N.S.M.P.Latha Devi** **4 . Mr. Haragouri Mishra** **5 . Dr. K. A. Emmanuel** **6 . Dr. T. Clarina** **7 . Dr. K. Umamakeshvari** **8 . Dr. Lakshmipriya M** **9 . Dr. S. Gnanam** **10 . Dr. M. Parthasarathy**
TITLE OF INVENTION	Zinc Comprising Nanoparticles and related Nanotechnology
FIELD OF INVENTION	CHEMICAL
E-MAIL (As Per Record)	03mrmanoj@gmail.com
ADDITIONAL-EMAIL (As Per Record)	03mrmanoj@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	15/07/2022

Application Status	
APPLICATION STATUS	**Awaiting Request for Examination**

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Application Details	
APPLICATION NUMBER	202241039693
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	11/07/2022
APPLICANT NAME	**1 . Dr. P G Thirumagal** **2 . Dr.S.Vasantha** **3 . M. Ruby Evangelin** **4 . Dr. K. Sampath** **5 . Dr. Syed Shahid Mazhar** **6 . Dr. Anis ur Rehman** **7 . Dr. Biplab Tripathy** **8 . Auadhati Datta**
TITLE OF INVENTION	AN INTEGRATED HUMAN-AI PARADIGM THROUGH ORGANISATIONAL AGILITY AND SUSTAINABLE PERFORMANCE
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	tmagal.sms@velsuniv.ac.in
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	22/07/2022

Application Status	
APPLICATION STATUS	**Awaiting Request for Examination**

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Application Details	
APPLICATION NUMBER	202241045340
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	09/08/2022
APPLICANT NAME	**1 . N. Indumathi** **2 . Dr. Mohit Kumar** **3 . Dr. Archana Kumar** **4 . M.K.Soundarya** **5 . Dr. S.Vijayaraj** **6 . D.Prabhu** **7 . Dr. Shrikant Upadhyay** **8 . Dr. V L Raja**
TITLE OF INVENTION	INTELLIGENT RECOGNITION & AVOIDANCE OF CYBER CRIME BY USING MACHINE LEARNING ALGORITHMS
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	mail2patentipr@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	19/08/2022

Application Status	
APPLICATION STATUS	**Awaiting Request for Examination**

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GEOGRAPHICAL INDICATIONS

Application Details	
APPLICATION NUMBER	202241045049
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	06/08/2022
APPLICANT NAME	**1 . Dr. Rajeev Gandhi S** **2 . Dr. A. Neeraja** **3 . Mrs. Angelin Kiruba P** **4 . Mr. G. Balaraman** **5 . Dr. V N Srinivasa Rao Repalle** **6 . Mr. Meraj Shabbir Bubere** **7 . Dr. Srinivas Remidi** **8 . Dr. Bele Charudatta Dattatraya** **9 . Dr. S. Sandhiya** **10 . Dr. S. Santhi** **11 . Dr. V. Sree Ramani**
TITLE OF INVENTION	Modelling of Website using Graph Theory
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	03mrmanoj@gmail.com
ADDITIONAL-EMAIL (As Per Record)	03mrmanoj@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	12/08/2022

Application Status	
APPLICATION STATUS	**Awaiting Request for Examination**

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Application Details	
APPLICATION NUMBER	202241044520
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	03/08/2022
APPLICANT NAME	**1 . Dr. Helen Merina Albert** **2 . Mrs. RuthKeziah M.** **3 . Dr. G. Vimala** **4 . Dr. M. Parthasarathy** **5 . Mrs. S. Lingeswari** **6 . Dr. N. Mujafarkani** **7 . Dr. Sinha Ashutosh Kumar** **8 . Dr. Kumara Swamy Jella** **9 . Mr. Sanjay Kumar Kuna** **10 . Mr. Shake Hussain Basha** **11 . Dr. D. V. Lokeswar Reddy**
TITLE OF INVENTION	METHOD FOR MANUFACTURING BIODEGRADABLE POLYMERIC NANOPARTICLE DRUG
FIELD OF INVENTION	BIOTECHNOLOGY
E-MAIL (As Per Record)	03mrmanoj@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	05/08/2022

Application Status	
APPLICATION STATUS	**Awaiting Request for Examination**

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Application Details	
APPLICATION NUMBER	202241046408
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	16/08/2022
APPLICANT NAME	**1 . Dr. K. SELVI** **2 . Dr. V. CHITRA** **3 . Dr. S. VIMALADEVI** **4 . Dr. N. VIJAYANAND** **5 . Dr. V. BHARGAVI REDDY** **6 . Mrs. NAFEESA HAZIRA N** **7 . Dr. B. ANURADHA** **8 . Dr. A. UMAHANI**
TITLE OF INVENTION	STRESS MANAGEMENT AND EMOTIONAL INTELLIGENCE
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	selvisuresh@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	26/08/2022

Application Status	
APPLICATION STATUS	**Awaiting Request for Examination**

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Application Details	
APPLICATION NUMBER	202241044791
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	05/08/2022
APPLICANT NAME	**1 . K V SIVA PRASAD REDDY** **2 . DR. K.S. ARCHANA** **3 . LAVANYA.K** **4 . G.REKHA** **5 . DR. N. PADMAJA** **6 . V.KAVITHA REDDY** **7 . SHAIK GHOUHAR TAJ** **8 . DR A. NARESH**
TITLE OF INVENTION	CLOUD AND LO-RA WAN BASED COVID PATIENT MONITORING AND DETECTION TECHNIQUE IN HOSPITAL FACILITY CENTERS
FIELD OF INVENTION	COMMUNICATION
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	sivajntuacep@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	12/08/2022

Application Status	
APPLICATION STATUS	**Awaiting Request for Examination**

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Application Details	
APPLICATION NUMBER	202241050147
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	02/09/2022
APPLICANT NAME	**1 . Dr. S. RadhaMahendran** **2 . Tirupati Rao Singupuram** **3 . Shraban Kumar Apat** **4 . Dr. S. Srithar** **5 . Ayaz Ahmed Faridi** **6 . Dr. S. Sangeetha** **7 . Dr. Janaki. P** **8 . Madhuri Nandanwar**
TITLE OF INVENTION	DESIGN WEB SERVER TO CLIENT COMMUNICATION FOR WEB USAGE DATA ANALYSIS
FIELD OF INVENTION	CHEMICAL
E-MAIL (As Per Record)	mahenradha@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	09/09/2022

Application Status	
APPLICATION STATUS	**Awaiting Request for Examination**

View Documents

Filed → Published → RQ Filed → Under Examination → Disposed

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Government of India

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INTELLECTUAL PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

Application Details	
APPLICATION NUMBER	202211051482
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	09/09/2022
APPLICANT NAME	**1 . Mohd. Shaikhul Ashraf** **2 . Dr. Sudarshana Borah** **3 . Kamallochan Barman** **4 . Bhanita Das** **5 . Dr. J. Suganya** **6 . Shoba Gunasekaran** **7 . Dr. Anurag Shrivastava**
TITLE OF INVENTION	DEVELOPING THE NEXT GENERATION OF DRUG DELIVERY TECHNOLOGIES USING NANOSCALE: MEDICINE TO AGRICULTURE
FIELD OF INVENTION	MECHANICAL ENGINEERING
E-MAIL (As Per Record)	thilaksayila@gmail.com
ADDITIONAL-EMAIL (As Per Record)	thilaksayila@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	16/09/2022

Application Status	
APPLICATION STATUS	**Awaiting Request for Examination**

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Government of India

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GEOGRAPHICAL INDICATIONS

Application Details	
APPLICATION NUMBER	202221050682
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	05/09/2022
APPLICANT NAME	**1 . Prof. Mrunalini Buradkar** **2 . Dr M. Newlin Rajkumar** **3 . Dr. S. Perumal** **4 . Dr. A.S. Arunachalam** **5 . Mr. R. Balamurugan** **6 . Mihaltan Traian Candin** **7 . Sakthivadivel M** **8 . Sonu Kumar** **9 . Dr. T. Dinesh Kumar** **10 . Dr. M. A. Archana**
TITLE OF INVENTION	LPG GAS DETECTOR LEAKAGE SYSTEM USING INTERNET OF THINGS (IOT)
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
E-MAIL (As Per Record)	senanipindia@gmail.com
ADDITIONAL-EMAIL (As Per Record)	admin@senanip.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	14/10/2022

Application Status	
APPLICATION STATUS	**Awaiting Request for Examination**

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Government of India

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GEOGRAPHICAL INDICATIONS

Application Details	
APPLICATION NUMBER	202241055650
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	28/09/2022
APPLICANT NAME	**1 . Dr. S. Perumal** **2 . Dr. Rashel Sarkar** **3 . Jenifer Robinson** **4 . Dr. Rajendra Vishnu Salunkhe** **5 . Dr. Laxman Prabhu Chikhale** **6 . Dr. Faiyyaj Shaikh** **7 . Athira S** **8 . Sakthivadivel M** **9 . Dr. Tapas Das** **10 . Dr. Tanvir Habib Sardar**
TITLE OF INVENTION	Exact Prediction and Consumption of Residential Electricity Power cost hours, daily, weekly, monthly using ANT, ML and DL Techniques
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	rrajanrmgsiph@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	14/10/2022

Application Status	
APPLICATION STATUS	**Awaiting Request for Examination**

View Documents

Filed → Published → RQ Filed → Under Examination → Disposed

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Patent Search

Invention Title	RP-HPLC METHOD FOR ESTIMATION OF METHOCARBAMOL IN PHARMACEUTICAL DOSAGE FORM AND USES THEREOF
Publication Number	35/2023
Publication Date	01/09/2023
Publication Type	INA
Application Number	202341053224
Application Filing Date	08/08/2023
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	CHEMICAL
Classification (IPC)	A61K0031270000, G01N0030020000, G01N0030860000, A61P0021000000, G01N0030060000

Inventor

Name	Address	Country
Dr.T.Sudha	Associate professor, Vels Institute of Science, Technology and Advance Studies (VISTAS), Pallavaram, Chennai-600117, Tamil Nadu, India	India
Dr.P. Kumar Nallasivan	Professor, Karpagam Academy of Higher Education, Coimbatore-641021, Tamil Nadu, India	India
Dr. J. Amudha Iswarya Devi	Professor, St. Mariam College of Pharmacy, Pudur, Tirunelveli-627851, Tamil Nadu, India	India
Mrs. M.V. Saranya	Associate professor, JKK Nataraja College of Pharmacy, Kumarapalayam, Namakkal District -638183, Tamil Nadu, India	India
Mr. K.S Dinesh	Assistant Professor, The Erode college of Pharmacy, Veppampalyam, Erode-638112, Tamil Nadu, India	India
Mr. Syed Abuthahir Badusha	Assistant Professor, PGP College of Science and Research Institute, Namakkal-637207, Tamil Nadu, India	India
Mr. S. Parthiban	Assistant Professor, PGP College of Pharmaceutical Science and Research Institute, Namakkal-637207, Tamil Nadu, India	India

Applicant

Name	Address	Country
Dr.T.Sudha	Associate professor, Vels Institute of Science, Technology and Advance Studies (VISTAS), Pallavaram, Chennai-600117, Tamil Nadu, India	India

Abstract:

Abstract RP-HPLC METHOD FOR ESTIMATION OF METHOCARBAMOL IN PHARMACEUTICAL DOSAGE FORM AND USES THEREOF The present invention provides a simp and sensitive method for the estimation of Methocarbamol in pharmaceutical dosage form. The method for estimation of Methocarbamol, comprising of dissolving Methocarbamol using acetonitrile and phosphate buffer pH 5.50 as mobile phase in the ratio of 65:35 %v/v; running chromatogram through column C18 150mm×4.6 3.6µm particle size, using mobile phase; optimizing conditions of column at flow rate 1ml/min, detecting wavelength at 265nm; running the sample and recording chr from the chromatograph for estimation of Methocarbamol. The process for the preparation of sample solution, comprising of wei ghing crushed Methocarbamol tabl transferring an amount equivalent to 75 mg of Methocarbamol in to a 100 ml volumetric flask; adding minimum quantity of mobile phase to dissolve the substance a the solution up to the volume with the 750µg/ml; sonicating the solution for 30 minutes, centrifuging at 100 rpm for 15 minutes and filtering through Whatman filter to obtain final concentration of the sample solution 12µg/ml. The method for estimation of Methocarbamol, wherein the capacit y factor of guaifenesin impurity (k1) i Methocarbamol 0.79; the resolution (Rs2,3) 7.77; the retention time of Methocarbamol (tR2) 2.99; the Beer's law limit 4-24µg/ml, Correlation Coefficient (r) 0.9990, Re equation Y=40453x-10847, Slope 40453 and Intercept 10847; the LOD 0.88µg/ml and LOQ 2.68 µg/ml; the assay 100.02%; the Precision (Intraday %RSD) 0.5212; the p recovery is in the range of 99.75%-101.06% and %RSD values are less than 2%. The present RP-HPLC method for estimation of Methocarbamol has excellent sensitivit and reproducibility.

Design Application Details

Application Number:

394703-001

Cbr Number:

21 1 274

Cbr Date:

08/09/2023 1 8:35:1 6

Applicant Name:

1 . Dr. Shivshankar Digamber Mhaske **2. Dr. Huma Shafi**
3. Mr. Mrutyunjaya Bhanja **4. Dr. K. Karthickeyan** **5. Dr. Abhishek Banke**
6. Ms.Usha Vishwakarma **7. Mr.Vishal Jagannath Gaikwad** **8. Mr.Pankaj P Fitwe**

Design Application Status

Application Status:

Design Accepted and Published, Journal No is 43/2023 and Journal Date is 27/1 0/2023

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Controller General of Patents, Designs and Trademarks

Patent Search

Invention Title	METHOD FOR IDENTIFYING HERBAL COMPOUNDS WITH ANTI-CANCER PROPERTIES USING MACHINE LEARNING TECHNIQUES
Publication Number	35/2023
Publication Date	01/09/2023
Publication Type	INA
Application Number	202341035784
Application Filing Date	23/05/2023
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	COMPUTER SCIENCE
Classification (IPC)	G06N0020000000, G06N0003040000, A61P0035000000, G06K0009620000, G06N0003080000

Inventor

Name	Address	Country
Atchutuni Venkata Subrahmanyeswara Ravi Sai Nadh	Assistant Professor, Department Of Pharmacology, Kvsr Siddhartha College Of Pharmaceutical Sciences, Vijayawada, Andhra Pradesh-520010, India	India
Tadikonda Iswarya	Department Of Pharmacology, Kvsr Siddhartha College Of Pharmaceutical Sciences, Vijayawada, Andhra Pradesh-520010, India	India
Lavu Divya Saroja	Department Of Pharmacology, Kvsr Siddhartha College Of Pharmaceutical Sciences, Vijayawada, Andhra Pradesh-520010, India	India
Bejagam Shanmukhi	Department Of Pharmacology, Kvsr Siddhartha College Of Pharmaceutical Sciences, Vijayawada, Andhra Pradesh-520010, India	India
Mr. Vijay Singh	Pragati College of Pharmacy, Kashipur, Udham Singh Nagar, Uttarakhand-244713, India	India
Mr. Arun Kumar Pal	Six Sigma Institute of Technology and Science, Rudrapur, Udham, Singh Nagar, Uttarakhand-263153, India.	India
Dr. Karthickeyan Krishnan	Professor and Head, Department of Pharmacy Practice, School of Pharmaceutical Sciences, Vels Institute of Science, Technology and Advanced Studies (VISTAS), Pallavaram, Chennai, Tamil Nadu-600117, India	India
Prof. (Dr.) Sunil Kumar Prajapati	Institute of Pharmacy, Bundelkhand University, Jhansi, UttarPradesh-284128, India	India
Dr. Ujashkumar Shah	Professor and Head, Faculty of Pharmacy, Nootan Pharmacy College, Sankalchand Patel University, SK campus, Visnagar. Dist. Mehsana. Gujarat-384315, India	India
V Gayathri	Department Of Pharmacology, Kvsr Siddhartha College Of Pharmaceutical Sciences, Vijayawada, Andhra Pradesh-520010, India	India
Anne Mohan Vamsi	Department Of Pharmacology, Kvsr Siddhartha College Of Pharmaceutical Sciences, Vijayawada, Andhra Pradesh-520010, India	India

Applicant

Patent Search

Invention Title	HERBAL COMPOSITION FOR THE TREATMENT OF CANCER AND PROCESS OF PREPARATION THEREOF
Publication Number	27/2023
Publication Date	07/07/2023
Publication Type	INA
Application Number	202311038905
Application Filing Date	06/06/2023
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	CHEMICAL
Classification (IPC)	A61K 364700, A61K 364840, A61K 368100, A61P 350000, B01J 351000

Inventor

Name	Address	Country
Prof. (Dr.) Vishal Garg	Principal & Professor, Jaipur School of Pharmacy, Maharaj Vinayak Global University, Dhand Tehsil Amer, Jaipur Delhi NH 11 C, Jaipur, Rajasthan - 302020, India	India
Dr. Apurba Talukdar	Associate Professor, NETES Institute of Pharmaceutical Science, NEMCARE Group of Institutions, Santipur, Mirza, Kamrup, Assam - 7811253, India	India
Dr. Ashok Kumar Uppuluru	Prof & Head, Department of Pharmacognosy, Max Institute of Pharmaceutical Sciences, Khammam, Telangana - 507318, India	India
Mr. Bhargav Bhongiri	Associate director, Synpharma Research lab, 2nd floor, rajadhani complex, dilsukhnagar, Hyderabad, Telangana - 500060, India	India
Dr. Nasreen Sulthana	Associate Professor, Department of Pharmacology, St. Pauls college of pharmacy, Turkayamjal, Telangana - 501510, India	India
Dr. Chennupati Venkata Suresh	Professor, Dept. Of Pharm. Analysis, Nalanda College of Pharmacy, Nalgonda, Telangana - 508001, India	India
Dr. Karthickeyan Krishnan	Professor and Head, Department of Pharmacy Practice, School of Pharmaceutical Sciences, Vels Institute of Science, Technology and Advanced Studies (VISTAS), Pallavaram, Chennai, Tamil Nadu - 600117, India.	India
Dr. Ujashkumar Shah	Professor and Head, Faculty of Pharmacy, Nootan Pharmacy College, Sankalchand Patel University, SK campus, Visnagar, Dist. Mehsana. Gujarat - 384315, India	India
Ms. Aatefa Harmyn Aayesha	Assistant professor, Ayesha college of pharmacy, Naaz colony, Hagarga cross, Kalaburagi, Karnataka - 585104, India	India
Dr. Pravin Honmane	Assistant professor, Adarsh college of Pharmacy, Vita, Chinchani, Kadegaon, Sangli, Maharashtra - 415303,India	India
Dr. Mohammed Altaf Ahmed	Principal, Ayesha college of pharmacy, Naaz colony, Hagarga cross, Kalaburagi, Karnataka - 585104, India	India

Applicant

Patent Search

Invention Title	DIFFERENTIAL EQUATION APPROXIMATION METHODS AND PROPERTIES FOR DEGENERATE Q-SPECIAL POLYNOMIALS
Publication Number	35/2023
Publication Date	01/09/2023
Publication Type	INA
Application Number	202341055745
Application Filing Date	21/08/2023
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	COMPUTER SCIENCE
Classification (IPC)	G06F0017130000, H03M0013030000, G06T0009000000, H03M0013000000, H04L0009300000

Inventor

Name	Address	Country
Meiyanathan M	Assistant Professor, Department of Mathematics, Sri Sairam Engineering College (Autonomous), Chennai, Kanchipuram-600044, Tamil Nadu, India.	India
Dr. S. Kavitha	Assistant Professor, Department of Mathematics, Excel Engineering College (Autonomous), Komarapalayam, Salem-637303, Tamil Nadu, India.	India
Manish Kumar	Research Scholar, Department of Mathematics, Nirwan University, Jaipur, Rajasthan, India.	India
Dr. Mini Thekkechangarampatt	Professor, Department of School of Management, CMR University, Bangalore, Karnataka, India.	India
Dr. K. Raghunath	Associate Professor, Department of Humanities and Sciences, St. Johns College of Engineering and Technology, Yemmiganur, Kurnool-518360, Andhra Pradesh, India.	India
A. Punitha	Assistant Professor, Department of Mathematics, VELS institute of science technology and advanced studies (VISTAS), Chennai, Kanchipuram-600117, Tamil Nadu, India.	India
Dr. G. Jayaraman	Assistant Professor, Department of Mathematics, VELS institute of science technology and advanced studies (VISTAS), Chennai, Kanchipuram-600117, Tamil Nadu, India.	India
Dr. A. K. Shrivastav	Department of Mathematics & Humanities, MMEC, Maharshi Markandashwar (Deemed to be University), Mullana, Ambala-133207, Haryana, India.	India

Applicant

Name	Address	Country
Meiyanathan M	Assistant Professor, Department of Mathematics, Sri Sairam Engineering College (Autonomous), Chennai, Kanchipuram-600044, Tamil Nadu, India.	India
Dr. S. Kavitha	Assistant Professor, Department of Mathematics, Excel Engineering College (Autonomous), Komarapalayam, Salem-637303, Tamil Nadu, India.	India
Manish Kumar	Research Scholar, Department of Mathematics, Nirwan University, Jaipur, Rajasthan, India.	India
Dr. Mini Thekkechangarampatt	Professor, Department of School of Management, CMR University, Bangalore, Karnataka, India.	India
Dr. K. Raghunath	Associate Professor, Department of Humanities and Sciences, St. Johns College of Engineering and Technology, Yemmiganur, Kurnool-518360, Andhra Pradesh, India.	India
A. Punitha	Assistant Professor, Department of Mathematics, VELS institute of science technology and advanced studies (VISTAS), Chennai, Kanchipuram-600117, Tamil Nadu, India.	India
Dr. G. Jayaraman	Assistant Professor, Department of Mathematics, VELS institute of science technology and advanced studies (VISTAS), Chennai, Kanchipuram-600117, Tamil Nadu, India.	India
Dr. A. K. Shrivastav	Department of Mathematics & Humanities, MMEC, Maharshi Markandashwar (Deemed to be University), Mullana, Ambala-133207, Haryana, India.	India

Patent Search

Invention Title	ON SEMI STAR PRE STAR CLOSED SET IN TOPOLOGICAL SPACES
Publication Number	33/2023
Publication Date	18/08/2023
Publication Type	INA
Application Number	202341031746
Application Filing Date	04/05/2023
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	TEXTILE
Classification (IPC)	D21H0021160000, G01R0033280000, B22F0012000000, G06K0007140000, B22F0010100000

Inventor

Name	Address	Country
Dr. V.E. Sasikala	Assistant Professor, Department of Mathematics, Vels Institute of Science, Technology and Advanced Studies, Pallavaram (VISTAS), Chennai, Tamilnadu, India, Pincode: 600117	India
Mrs. R.Sudha	Research Scholar, Department of Mathematics, Vels Institute of Science, Technology and Advanced Studies, Pallavaram (VISTAS), Chennai, Tamilnadu, India, Pincode: 600117	India

Applicant

Name	Address	Country
Dr. V.E. Sasikala	Assistant Professor, Department of Mathematics, Vels Institute of Science, Technology and Advanced Studies, Pallavaram (VISTAS), Chennai, Tamilnadu, India, Pincode: 600117	India
Mrs. R.Sudha	Research Scholar, Department of Mathematics, Vels Institute of Science, Technology and Advanced Studies, Pallavaram (VISTAS), Chennai, Tamilnadu, India, Pincode: 600117	India

Abstract:

The invention discussed in the paper falls under the field of Topology, which is a mathematical branch focused on analyzing properties of spaces. The paper introduc category of closed sets named semi* pre* closed sets, situated within the field of topology. The paper delves into the fundamental characteristics of these sets and e the union and intersection of two s *p* closed sets are related.

Complete Specification

Description:The field of invention related to the content described in the paper is Topology, which is a branch of mathematics that deals with the study of spaces ar properties. Specifically, the paper introduces a new class of closed sets called semi* pre* closed sets in topological spaces, which is a topic within the field of topolc paper also investigates the basic properties of these sets and explores the relationship between the union and intersection of two s*p*closed sets.

Background of the invention:

The concept of closed sets plays a fundamental role in topology and is used to study the convergence of sequences and the continuity of functions. In recent years, types of closed sets have been introduced and investigated in different topological spaces. One such type of closed set is the semi-closed set, which is a generalizat closed sets.

Motivated by the study of closed sets, in this paper, we introduce a new class of closed sets known as semi* pre* closed sets in topological spaces. This new class o sets is obtained by combining the concepts of semi-closed sets and the complement of pre-closed sets. We call a set semi* pre* closed if it is both involved semi-clo and the complement of pre-closed set.

We investigate the basic properties of semi* pre* closed sets, including their relationship with other types of closed sets. In particular, we establish a relationship b the union and intersection of two semi* pre* closed sets. The results obtained in this paper can be useful in the study of convergence and continuity in topological

We also explore the relationships between semi* pre* closed sets and other types of closed sets, such as semi closed sets, pre closed setsand regular closed sets. W provide examples to illustrate the differences between these different types of closed sets and to show that semi* pre* closed sets are a distinct and important clas closed sets

View Application Status

Patent Search

Invention Title	A SYSTEM FOR DEVELOPMENT OF BAYESIAN INFERENCE IN MATHEMATICAL STATISTICS
Publication Number	01/2024
Publication Date	05/01/2024
Publication Type	INA
Application Number	202341082923
Application Filing Date	05/12/2023
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	COMPUTER SCIENCE
Classification (IPC)	G06N0007000000, G06N0005040000, G06F0017180000, G01R0033560000, G16B0020200000

Inventor

Name	Address	Country
Dr. M. Sreedhar Babu	Associate Professor, Department of Applied Mathematics, Yogi Vemana University, YSR Kadapa, Andhra Pradesh, India, Pincode: 516005	India
Dr. Indu Tyagi	Professor, Applied Mathematics, Galgotias College of Engineering and Technology, Greater Noida, Uttar Pradesh, India, 201310	India
Dr. Nellore Manoj Kumar	Independent Researcher, Infinite Research, Founder and CEO, B.O., 15-225, Gollapalem, Venkatagiri, Tirupati District, Andhra Pradesh, India, Pincode: 524132	India
Dr. Ramesha M	Assistant Professor, Department of Mathematics, Faculty of Engineering & Technology, Jain Global Campus, Jain (Deemed-to-be University), Jakkasandra, Kanakapura (Tq), Ramanagara (Dt), Karnataka (St), India, Pincode: 562112	India
Mr. G. Charles Rabinson	Assistant Professor, Department of Mathematics, Vels Institute of Science, Technology & Advanced Studies (VISTAS), Pallavaram, Tamilnadu, India, Pincode: 600117	India
Dr. T. Harikrishnan	Assistant Professor, Department of Mathematics, SRM Institute of Science and Technology, Ramapuram Campus, Chennai, Tamilnadu, India, Pincode: 600089	India
Dr. Y. Madhusudhana Reddy	Associate Professor, Department of Mathematics, Sri Venkateswara Degree & PG College, Ananthapuramu, Andhra Pradesh, India, Pincode: 515001	India
Mrs. P. Matilda Shanthini	Assistant Professor, Department of Mathematics, SRM Institute of Science and Technology, Ramapuram Campus, Chennai, Tamilnadu, India, Pincode: 600089	India

Applicant

Name	Address	Country
Dr. M. Sreedhar Babu	Associate Professor, Department of Applied Mathematics, Yogi Vemana University, YSR Kadapa, Andhra Pradesh, India, Pincode: 516005	India
Dr. Indu Tyagi	Professor, Applied Mathematics, Galgotias College of Engineering and Technology, Greater Noida, Uttar Pradesh, India, 201310	India
Dr. Nellore Manoj Kumar	Independent Researcher, Infinite Research, Founder and CEO, B.O., 15-225, Gollapalem, Venkatagiri, Tirupati District, Andhra Pradesh, India, Pincode: 524132	India
Dr. Ramesha M	Assistant Professor, Department of Mathematics, Faculty of Engineering & Technology, Jain Global Campus, Jain (Deemed-to-be University), Jakkasandra, Kanakapura (Tq), Ramanagara (Dt), Karnataka (St), India, Pincode: 562112	India
Mr. G. Charles Rabinson	Assistant Professor, Department of Mathematics, Vels Institute of Science, Technology & Advanced Studies (VISTAS), Pallavaram, Tamilnadu, India, Pincode: 600117	India
Dr. T. Harikrishnan	Assistant Professor, Department of Mathematics, SRM Institute of Science and Technology, Ramapuram Campus, Chennai, Tamilnadu, India, Pincode: 600089	India
Dr. Y. Madhusudhana Reddy	Associate Professor, Department of Mathematics, Sri Venkateswara Degree & PG College, Ananthapuramu, Andhra Pradesh, India, Pincode: 515001	India
Mrs. P. Matilda Shanthini	Assistant Professor, Department of Mathematics, SRM Institute of Science and Technology, Ramapuram Campus, Chennai, Tamilnadu, India, Pincode: 600089	India

Design Application Details

Application Number:

404697-001

Cbr Number:

20071 9

Cbr Date:

1 6/01 /2024 1 6:23:1 1

Applicant Name:

1 . DR R BALAKRISHNA **2. DR A RAJESH** **3. DR J HEMANANDH**
4. SAJEEV RAM ARUMUGAM **5. MS ANNIE D** **6. MS VANDANA CHANDRAKAR**
7. DR SUJEET KUMAR **8. DR S DURGALAKSHMI** **9. MR ASHEESH SEHGAL**
1 0. MR AJAY PARTAP SINGH **1 1 . DR S BASKAR**

Design Application Status

Application Status:

Design Accepted and Published, Journal No is 1 7/2024 and Journal Date is 26/04/2024

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Design Application Details

Application Number:

402486-001

Cbr Number:

21 6089

Cbr Date:

1 9/1 2/2023 1 5:33:1 2

Applicant Name:

1 . DR.M.K.ARAVINDAN 2. DR.VENKADESHWARAN K 3. DR.S.BASKAR
4. DR.SAURABH KUMAR 5. DR.HARISH KUMAR GHRITLAHRE
6. PURVI CHANDRAKAR 7. DR.S.ARUNKUMAR 8. DR.S.AJITH ARUL DANIEL
9. MR.S.SIVABALAN 1 0. DR.S.VENUGOPAL
11 . DR.DEEPAK KUMAR YADUWANSHI

Design Application Status

Application Status:

Design Accepted and Published, Journal No is 06/2024 and Journal Date is 09/02/2024

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Controller General of Patents, Designs and Trademarks

Design Application Details

Application Number:

391950-001

Cbr Number:

209753

Cbr Date:

04/08/2023 17:43:10

Applicant Name:

1. DR. K. MUNI RAJA LAKSHMI **2. MR. KRISHNAKUMAR KOSALARAM**
3. MR. BALAJI ELLAPPAN **4. DR. R. SRIDHAR**
5. DR. DEEPAK KUMAR YADUWANSHI **6. MR. AJAY PARTAP SINGH**
7. DR. BHARATHI RAJAN R **8. DR. PANKAJ SAINI** **9. MR. S. SIVABALAN**
10. DR. S. BASKAR

Design Application Status

Application Status:

Design Accepted and Published, Journal No is 41/2023 and Journal Date is 13/10/2023

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Design Application Details

Application Number:

391444-001

Cbr Number:

209419

Cbr Date:

28/07/2023 18:17:27

Applicant Name:

1. DR. KUMARASWAMY J 2. DR. V. SIVAKUMAR 3. DR. P. SHIVAKUMAR SINGH
4. DR. H.C.SHRISHAIL 5. DR. A. VENKATESH 6. DR. C. JOEL
7. DR. MEENAMBIGA SETTI SUDHARSAN 8. DR. S. PREMNATH
9. DR. S. PADMANABHAN 10. DR. S. BASKAR

Design Application Status

Application Status:

Design Accepted and Published, Journal No is 41/2023 and Journal Date is 13/10/2023

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Design Application Details

Application Number:

388645-002

Cbr Number:

207640

Cbr Date:

1 9/06/2023 1 7:50:59

Applicant Name:

1 . DR. KUMARASWAMY J **2. MR. ASHEESH SEHGAL**
3. DR. PUNEET SINGH GAUTAM **4. MR. P. PADMALOSAN**
5. DR. S. RAMASUBRAMANIAN **6. DR. S. PADMANABHAN**
7. DR. N. POYYAMOZHI **8. MR. S. SIVABALAN** **9. MR. S. BASKAR**
1 0. DR. V S SHAISUNDARAM

Design Application Status

Application Status:

Design Accepted and Published, Journal No is 39/2023 and Journal Date is 29/09/2023

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Design Application Details

Application Number:

3881 95-001

Cbr Number:

207332

Cbr Date:

1 2/06/2023 1 7:40:42

Applicant Name:

1 . DR. KUMARASWAMY J **2. DR. V. SAMPATHKUMAR** **3. DR. S. ARUNKUMAR**
4. DR. SUBHASH CHAND **5. MR. V. HARIPRASATH** **6. DR. C. GNANAVEL**
7. DR. N. POYYAMOZHI **8. CHALLA PARVATHI RUDESH** **9. MR. S.BASKAR**
1 0. DR. T. VINOD KUMAR

Design Application Status

Application Status:

Design Accepted and Published, Journal No is 39/2023 and Journal Date is 29/09/2023

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Design Application Details

Application Number:

395510-001

Cbr Number:

211797

Cbr Date:

20/09/2023 20:26:37

Applicant Name:

1. VISTAS **2. Dr. Arun Raaza** **3. Dr. P. R. Kalyana Chakravarthy**

Design Application Status

Application Status:

Design Accepted and Published, Journal No is 21 /2024 and Journal Date is 24/05/2024

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Design Application Details

Application Number:

383534-001

Cbr Number:

204493

Cbr Date:

1 0/04/2023 21 :06:42

Applicant Name:

1. VISTAS **2. Dr. Arun Raaza** **3. K. Sushita**

Design Application Status

Application Status:

Design Accepted and Published, Journal No is 26/2023 and Journal Date is 30/06/2023

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Patent Search

Invention Title	AN ADVANCED MACHINE LEARNING, AI, AND SENSOR-BASED HYBRID RECOMMENDER SYSTEM FOR PARKINSON'S DISEASE PATIENTS
Publication Number	26/2023
Publication Date	30/06/2023
Publication Type	INA
Application Number	202341039689
Application Filing Date	09/06/2023
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	BIO-MEDICAL ENGINEERING
Classification (IPC)	A61F 131500, A61P 251600, B32B 371000, C12N 151000, G06N 200000

Inventor

Name	Address	Country
Mr. SMP Naimul Nawaz	Assistant Professor, Department of CSE, Dr.K.V.Subba Reddy Institute of Technology, Opp: Dupadu Railway Station, NH-44, Laksmipuram – Post, Kurnool, Andhra Pradesh, 518218, India	India
Dr S Meera	Associate Professor, Vel's Institute of Science Technology and Advanced Studies(VISTAS), R5WW+PC4, Old Mahabalipuram Road, IT Highway, Navalur, adjacent to Sri Venkatewara Dental College, Thazhambur, Tamil Nadu, 600130, India	India
Mr. C Mohammed Gulzar	Associate Professor, Department of CSE, Dr.K.V.Subba Reddy Institute of Technology, Opp: Dupadu Railway Station, NH-44, Laksmipuram – Post, Kurnool, Andhra Pradesh, 518218, India	India
Mr. B.Harish Kumar Reddy	Assistant Professor, Department of CSE, Dr.K.V.Subba Reddy Institute of Technology, Opp: Dupadu Railway Station, NH-44, Laksmipuram – Post, Kurnool, Andhra Pradesh, 518218, India	India
Mr. Basuthkar Mahesh	Associate Professor, Department of CSE, Dr.K.V.Subba Reddy Institute of Technology, Opp: Dupadu Railway Station, NH-44, Laksmipuram – Post, Kurnool, Andhra Pradesh, 518218, India	India

Applicant

Name	Address	Country
Mr. SMP Naimul Nawaz	Assistant Professor, Department of CSE, Dr.K.V.Subba Reddy Institute of Technology, Opp: Dupadu Railway Station, NH-44, Laksmipuram – Post, Kurnool, Andhra Pradesh, 518218, India	India
Dr S Meera	Associate Professor, Vel's Institute of Science Technology and Advanced Studies(VISTAS), R5WW+PC4, Old Mahabalipuram Road, IT Highway, Navalur, adjacent to Sri Venkatewara Dental College, Thazhambur, Tamil Nadu, 600130, India	India
Mr. C Mohammed Gulzar	Associate Professor, Department of CSE, Dr.K.V.Subba Reddy Institute of Technology, Opp: Dupadu Railway Station, NH-44, Laksmipuram – Post, Kurnool, Andhra Pradesh, 518218, India	India
Mr. B.Harish Kumar Reddy	Assistant Professor, Department of CSE, Dr.K.V.Subba Reddy Institute of Technology, Opp: Dupadu Railway Station, NH-44, Laksmipuram – Post, Kurnool, Andhra Pradesh, 518218, India	India
Mr. Basuthkar Mahesh	Associate Professor, Department of CSE, Dr.K.V.Subba Reddy Institute of Technology, Opp: Dupadu Railway Station, NH-44, Laksmipuram – Post, Kurnool, Andhra Pradesh, 518218, India	India

Abstract:

AN ADVANCED MACHINE LEARNING, AI, AND SENSOR-BASED HYBRID RECOMMENDER SYSTEM FOR PARKINSON'S DISEASE PATIENTS ABSTRACT This invention belong of Computer Science and its utility is to enable the Machine learning, AI and sensor-based hybrid recommender system for parkinsons disease patients. The inventio a virtual physical therapist (PT) system powered by machine learning that enables patients with Parkinson's disease (PD) to get individualised remote instruction. To a individuals with PD in gaining better balance and mobility, three physical therapy exercises with varying degrees of difficulty were chosen. A Kinect sensor records pat movements. Our PT co-author carefully crafts the criteria for each task so that the patient's performance may be assessed mechanically. We provide a two-phase hu understanding algorithm (TPHAU) to comprehend the patient's movements based on the motion data and an error identification mo del to pinpoint the patient's mov mistakes.

Design Application Details

Application Number:

383359-001

Cbr Number:

204411

Cbr Date:

08/04/2023 13:51:31

Applicant Name:

1. Dr. Anoop Kumar N **2. Dr. Sandhya S** **3. Kiran Kumar Kurella**
4. Dr. Mohamed Zerein Fathima **5. Dr. Kiran Kumar** **6. Dr. V. Kiran Kumar**
7. Dr. Sachinkumar Dnyaneshwar Gunjal **8. Dr. Niranjan Panda**
9. Chatlapelli Kishore **10. Dr. Maya M** **11. Satyabrata Jena**

Design Application Status

Application Status:

Design Accepted and Published, Journal No is 08/2024 and Journal Date is 23/02/2024

Back (/DesignApplicationStatus/)

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Design Application Details

Application Number:

382708-001

Cbr Number:

2041 05

Cbr Date:

31 /03/2023 21 :47:1 1

Applicant Name:

1. VISTAS **2. Dr. Arun Raaza** **3. Dr.T Ilango**

Design Application Status

Application Status:

Design Accepted and Published, Journal No is 25/2023 and Journal Date is 23/06/2023

Back (/DesignApplicationStatus/)

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Design Office, Kolkata : controllerdesign[dot]ipo[at]nic[dot]in
Controller General of Patents, Designs and Trademarks

Patent Search

Invention Title	IMPLEMENTATION OF BIG DATA ANALYTICS INTEGRATED WITH ARTIFICIAL INTELLIGENCE FOR IMPROVING THE TOURISM AND HOSPITA
Publication Number	24/2023
Publication Date	16/06/2023
Publication Type	INA
Application Number	202341031702
Application Filing Date	04/05/2023
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	COMPUTER SCIENCE
Classification (IPC)	B65D 830400, G06N 200000, G06Q 300200, G06Q 501400, H04N 071800

Inventor

Name	Address	Country
Bandi Alekhya	Assistant Professor/Department of ECE, VR Siddhartha Engineering College, Krishna, Vijayawada-520007, Andhra pradesh, India	India
Dr.A.Devi	Associate Professor, Department of Computer Applications, Dr.SNS Rajalakshmi College of Arts and Science (Autonomous), Chinnavedampatti, Coimbatore, Tamil Nadu, India	India
Manoj Kumar Mishra	Assistant Professor, School of Management, OP Jindal University, Punjipathra, Raigarh, Chhattisgarh 496109, Chhattisgarh, India	India
Deepakraj.V	Assistant Professor, School of Hotel and Catering Management, Vels Institute of Science Technology and Advanced Studies, Pallavaram, Chengalpattu, Chennai 117, Tamil Nadu, India	India
Dr.M.Subhashini	Professor, Aurora's PG College, Department Of MBA, Medchal-Malkajgiri District, Hyderabad-500013, Telangana, India	India
Dr.N.Muthukumar	Professor and Head, Department of management studies, Rajarajeswari college of engineering, Bangalore, Karnataka, India	India
Dr. Bandaru Srinivasa Rao	Professor, Department of Management Studies, VFSTR Deemed to be University, Vadlamudi, Guntur District, Andhra Pradesh, India, 522213	India
Dr T Ravichandran	Professor and Head, Department of Computer Science and Engineering, Myleripalayam Village, Othakkal Mandapam, Coimbatore -641032, Tamil Nadu, India	India
Dr. Pritam Chattopadhyay	Associate Professor, Amity Global Business School Pune, Pune - 411016, Maharashtra, India	India
Vijaya Sagvekar	Assistant Professor, Department of IT, Vasantdada Patil Pratishthan's College of Engineering & Visual Arts Sion, Mumbai 22, Maharashtra, India	India
Dr. P.Vamsi Krishna	Assistant Professor, School of Management, Malla Reddy University, R. R. District, Hyderabad, 500043, Telangana, India	India
Nilima Das	Assistant Professor, Department of Business Administration, Trident Academy of Creative Technology, Khurdha, Bhubaneswar 751024, Odisha, India	India

Applicant

Design Application Details

Application Number:

382709-001

Cbr Number:

2041 05

Cbr Date:

31 /03/2023 21 :47:1 1

Applicant Name:

1. VISTAS **2. Dr. Arun Raaza** **3. Mr.C.Arul Stephen** **4. Dr.T.Jaya**

Design Application Status

Application Status:

Design Accepted and Published, Journal No is 24/2023 and Journal Date is 1 6/06/2023

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Design Application Details

Application Number:

382697-001

Cbr Number:

2041 02

Cbr Date:

31 /03/2023 20:37:41

Applicant Name:

1. VISTAS **2. Dr. Arun Raaza** **3. Dr.N.Shanmugasundaram**

Design Application Status

Application Status:

Design Accepted and Published, Journal No is 24/2023 and Journal Date is 1 6/06/2023

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Design Application Details

Application Number:

382707-001

Cbr Number:

2041 05

Cbr Date:

31 /03/2023 21 :47:1 1

Applicant Name:

1. VISTAS **2. Dr. Arun Raaza** **3. Dr. R. Sridhar**

Design Application Status

Application Status:

Design Accepted and Published, Journal No is 24/2023 and Journal Date is 1 6/06/2023

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Design Application Details

Application Number:

382702-001

Cbr Number:

2041 03

Cbr Date:

31 /03/2023 20:43:35

Applicant Name:

1. VISTAS **2. Dr. Arun Raaza** **3. Mr. Antony Veera Puthira Raja**

Design Application Status

Application Status:

Design Accepted and Published, Journal No is 23/2023 and Journal Date is 09/06/2023

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Design Application Details

Application Number:

382701-001

Cbr Number:

204103

Cbr Date:

31/03/2023 20:43:35

Applicant Name:

1. VISTAS **2. Dr. Arun Raaza** **3. Dr.V.S.Shai Sundaram** **4. Mr. S. Baskar**

Design Application Status

Application Status:

Design Accepted and Published, Journal No is 23/2023 and Journal Date is 09/06/2023

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Design Application Details

Application Number:

381 098-001

Cbr Number:

203004

Cbr Date:

09/03/2023 1 6:25:47

Applicant Name:

1 . DR. T. VINOD KUMAR **2. MR.S.ARUNKUMAR** **3. DR.R.B.MALATHY**
4. P. PADMALOSAN **5. DR.S.RAMASUBRAMANIAN** **6. MR.S.BASKAR**
7. MR.A.YESU CHINNAPPARAJ **8. MR.S.BHARATH** **9. DR.D.SENDIL KUMAR**
1 0. MR.R.SHANKARA NARAYANAN

Design Application Status

Application Status:

Design Accepted and Published, Journal No is 21 /2023 and Journal Date is 26/05/2023

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Design Application Details

Application Number:

382703-001

Cbr Number:

2041 03

Cbr Date:

31 /03/2023 20:43:35

Applicant Name:

1. VISTAS **2. Dr. Arun Raaza** **3. Dr.S.Pradeep Kumar** **4. Dr.B.Rubini**

Design Application Status

Application Status:

Design Accepted and Published, Journal No is 21 /2023 and Journal Date is 26/05/2023

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Design Application Details

Application Number:

382672-001

Cbr Number:

204079

Cbr Date:

31 /03/2023 1 5:04:58

Applicant Name:

1. VISTAS **2. Dr. Arun Raaza** **3. Dr.C.Dhanasekaran**

Design Application Status

Application Status:

Design Accepted and Published, Journal No is 21 /2023 and Journal Date is 26/05/2023

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Design Application Details

Application Number:

382669-001

Cbr Number:

204079

Cbr Date:

31 /03/2023 1 5:04:58

Applicant Name:

1. VISTAS **2. Dr. Arun Raaza** **3. Dr.P.Vijaya Lakshmi**

Design Application Status

Application Status:

Design Accepted and Published, Journal No is 21 /2023 and Journal Date is 26/05/2023

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Design Application Details

Application Number:

382700-001

Cbr Number:

2041 03

Cbr Date:

31 /03/2023 20:43:35

Applicant Name:

1. VISTAS **2. Dr. Arun Raaza** **3. Dr. M. Meena**

Design Application Status

Application Status:

Design Accepted and Published, Journal No is 21 /2023 and Journal Date is 26/05/2023

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Design Application Details

Application Number:

382670-001

Cbr Number:

204079

Cbr Date:

31 /03/2023 1 5:04:58

Applicant Name:

1. VISTAS **2. Dr. Arun Raaza** **3. Dr.C.Sharanya**

Design Application Status

Application Status:

Design Accepted and Published, Journal No is 21 /2023 and Journal Date is 26/05/2023

Back (/DesignApplicationStatus/)

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Design Office, Kolkata : controllerdesign[dot]ipo[at]nic[dot]in
Controller General of Patents, Designs and Trademarks

Patent Search

Invention Title	ANALYSIS OF BEST ENGLISH LEARNING APP FOR STUDENTS IN INDIA
Publication Number	20/2023
Publication Date	19/05/2023
Publication Type	INA
Application Number	202311020625
Application Filing Date	23/03/2023
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	ELECTRONICS
Classification (IPC)	A61K 363100, A61K 367400, G06Q 502000, G09B 050600, G09B 190600

Inventor

Name	Address	Country
Ms. Gagandeep Bhullar	Assistant Professor, Business Administration, Chandigarh Business School Of Management, Chandigarh Group Of Colleges (CGC), Landran, Mohali - 140307, Punjab, India	India
Mr. N. R. Gowrishankar	Assistant Professor, English, Dr. SNS Rajalakshmi College Of Arts And Science, Coimbatore - 641049, Tamilnadu, India	India
Dr. Sugantha Ezhil Mary	Associate Professor, Department Of English, Vels Institute Of Science, Technology And Advanced Studies, Pallavaram, Chennai - 600117, Tamilnadu, India	India
Dr. M. R. Kumaraswamy	Dean, Department Of English, PKR Arts, College For Women (Autonomous), Gobichettipalayam - 638476, Tamilnadu, India	India
Dr. M. Sandra Carmel Sophia	Professor, English, KL Deemed To Be University, Green Fields, Vaddeswaram - 522302, Andhra Pradesh, India	India
Mrs. V. Kaladevi	Assistant Professor Of English, Science &Humanities, Faculty Of Engineering, Karpagam Academy Of Higher Education, Coimbatore - 641021, Tamil Nadu, India	India
Dr. S. Kanchana	Professor, Management Studies, J.J. College Of Engineering And Technology, Tiruchirappalli - 620009, Tamil Nadu, India	India
Dr. Sudhir Kumar Patnaik	Seniorassistant Professor, Basic Sciences And Humanities, GMR Institute Of Technology, GMR Nagar, Rajam, Vizianagaram - 532127, Andhra Pradesh, India	India
Dr. Manoj AS	Head - Planning, Competency Development & Innovations, Government Projects, ICT Academy Of Kerala, Trivandrum - 695581, Kerala, India	India
Dr. Ashish Gupta	Professor & Head, English, Government Girls College, Betul - 460001, Madhya Pradesh, India	India
Mr. Amolgopinath Bade	Assistant Professor, English, Savitribaiphule Pune University, Pune - 412105, Maharashtra, India	India
Monalisa Mishra	Assistant Professor, SOA University, Bhubaneswar - 751010, Odisha, India	India
Dr. V. Kannan	Managing Director, CLDC Research And Development No.997, Mettupalayam Road, Near X-Cut Signal, R.S.Puram, Coimbatore - 641002, Tamil Nadu, India	India
Mr. J. Logeshwaran	Research Scholar, Department Of Electronics And Communication Engineering, Sri Eshwar College Of Engineering, Coimbatore, Tamil Nadu, India	India

Applicant

Design Application Details

Application Number:

378201-001

Cbr Number:

201294

Cbr Date:

29/01/2023 14:44:21

Applicant Name:

1. Dr. P Shanmugasundaram **2. Dr. C. Ronald Darwin** **3. Dr. J Priyanga**
4. Mr. Joel Mart. E **5. Dr.M.Varaprasanna Rao** **6. Dr.Mohamed Zerein Fathima.M**

Design Application Status

Application Status:

Design Accepted and Published, Journal No is 16/2023 and Journal Date is 21/04/2023

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Design Application Details

Application Number:

375549-001

Cbr Number:

209718

Cbr Date:

13/12/2022 15:12:00

Applicant Name:

1. VISTAS **2. Dr. M. Ramalingam** **3. Dr. Arun Raaza**

Design Application Status

Application Status:

Design Accepted and Published, Journal No is 20/2023 and Journal Date is 19/05/2023

Back (/DesignApplicationStatus/)

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Design Office, Kolkata : controllerdesign[dot]ipo[at]nic[dot]in
Controller General of Patents, Designs and Trademarks

Design Application Details

Application Number:

378202-001

Cbr Number:

201294

Cbr Date:

29/01/2023 14:44:21

Applicant Name:

1. Dr.M.Vijey Aanandhi **2. Dr.M.Sumithra** **3. Dr.R.Gandhimathi** **4. Dr.T.Sudha**
5. Mrs Afroz Pathan **6. Mrs M.Archana**

Design Application Status

Application Status:

Design Accepted and Published, Journal No is 19/2023 and Journal Date is 12/05/2023

Back (/DesignApplicationStatus/)

Disclaimer: Application status is available for the application filed on or after 1st April 2009 with application no 222230.The information under " Design Application Status" is dynamically retrieved and is under testing, therefore the information retrieved by this system is not valid for any legal proceedings under the Design Act 2000. In case of any discrepancy you may contact the appropriate Patent Office or send your comments to following email IDs:
Design Office, Kolkata : controllerdesign[dot]ipo[at]nic[dot]in
Controller General of Patents, Designs and Trademarks

Design Application Details

Application Number:

377646-001

Cbr Number:

200867

Cbr Date:

1 9/01 /2023 07:02:48

Applicant Name:

1. VISTAS **2. Dr. T Jaya** **3. Madona B Sahaai** **4. Dr.V.Rajendran**
5. Dr. Arun Raaza

Design Application Status

Application Status:

Design Accepted and Published, Journal No is 1 9/2023 and Journal Date is 1 2/05/2023

Back (/DesignApplicationStatus/)

Disclaimer: Application status is available for the application filed on or after 1st April 2009 with application no 222230.The information under " Design Application Status" is dynamically retrieved and is under testing, therefore the information retrieved by this system is not valid for any legal proceedings under the Design Act 2000. In case of any discrepancy you may contact the appropriate Patent Office or send your comments to following email IDs:
Design Office, Kolkata : controllerdesign[dot]ipo[at]nic[dot]in
Controller General of Patents, Designs and Trademarks

Design Application Details

Application Number:

377566-001

Cbr Number:

200804

Cbr Date:

17/01/2023 16:05:39

Applicant Name:

1. VISTAS **2. Mr. S. Rajagopal** **3. Dr. Arun Raaza**

Design Application Status

Application Status:

Design Accepted and Published, Journal No is 19/2023 and Journal Date is 12/05/2023

Back (/DesignApplicationStatus/)

Disclaimer: Application status is available for the application filed on or after 1st April 2009 with application no 222230.The information under " Design Application Status" is dynamically retrieved and is under testing, therefore the information retrieved by this system is not valid for any legal proceedings under the Design Act 2000. In case of any discrepancy you may contact the appropriate Patent Office or send your comments to following email IDs:

Design Office, Kolkata : controllerdesign[dot]ipo[at]nic[dot]in
Controller General of Patents, Designs and Trademarks

ORIGINAL

मूल/No : 121759

सत्यमेव जयते

भारत सरकार
GOVERNMENT OF INDIA
पेटेंट कार्यालय
THE PATENT OFFICE
डिजाइन के पंजीकरण का प्रमाणपत्र
CERTIFICATE OF REGISTRATION OF DESIGN

डिजाइन सं. / Design No.	:	370041-001
तारीख / Date	:	29/08/2022
पारस्परिकता तारीख / Reciprocity Date*	:	
देश / Country	:	

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **TOUCH FREE WALL MOUNTED HAND SANITIZER DISPENSER WITH EMERGENCY LIGHT** से संबंधित है, का पंजीकरण, श्रेणी **23-08** में 1.Dr S Padmanabhan 2. Dr T Vinod Kumar 3.Dr R Muraliraja 4.Dr M Chandrasekaran के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class **23-08** in respect of the application of such design to **TOUCH FREE WALL MOUNTED HAND SANITIZER DISPENSER WITH EMERGENCY LIGHT** in the name of 1.Dr S Padmanabhan 2. Dr T Vinod Kumar 3.Dr R Muraliraja 4.Dr M Chandrasekaran.

डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अध्यधीन प्रावधानों के अनुसरण में।
In pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001.

INTELLECTUAL PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

निर्गमन की तारीख/Date of Issue : 23/12/2022

महानियंत्रक पेटेंट डिजाइन और व्यापार चिह
Controller General of Patents, Designs and Trade Marks

पारस्परिकता तारीख (यदि कोई हो) जिसकी अनुमति देश के नाम पर की गई है। डिजाइन का सत्त्वाधिकार पंजीकरण की तारीख से दस वर्षों के लिए होगा जिसका विस्तार, अधिनियम एवं नियम के निबंधनों के अधीन, पाँच वर्षों की अतिरिक्त अवधि के लिए किया जा सकेगा। इस प्रमाण पत्र का उपयोग विधिक कार्यवाहियों अथवा विदेश में पंजीकरण प्राप्त करने के लिए नहीं हो सकता है।

*The reciprocity date (if any) which has been allowed and the name of the country.Copyright in the design will subsist for ten years from the date of Registration, and may under the terms of the Act and Rules, be extended for a further period of five years.This Certificate is not for use in legal proceedings or for obtaining registration abroad.

ORIGINAL

मूल/No : 121812

सत्यमेव जयते

भारत सरकार
GOVERNMENT OF INDIA
पेटेंट कार्यालय
THE PATENT OFFICE
डिजाइन के पंजीकरण का प्रमाणपत्र
CERTIFICATE OF REGISTRATION OF DESIGN

डिजाइन सं. / Design No.	:	370041-002
तारीख / Date	:	29/08/2022
पारस्परिकता तारीख / Reciprocity Date*	:	
देश / Country	:	

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **AUTOMATIC HAND SANITIZER DISPENSER WITH EMERGENCY LAMP** से संबंधित है, का पंजीकरण, श्रेणी **23-08** में 1.Dr S Padmanabhan 2. Dr T Vinod Kumar 3.Dr R Muraliraja 4.Dr M Chandrasekaran के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class **23-08** in respect of the application of such design to **AUTOMATIC HAND SANITIZER DISPENSER WITH EMERGENCY LAMP** in the name of 1.Dr S Padmanabhan 2. Dr T Vinod Kumar 3.Dr R Muraliraja 4.Dr M Chandrasekaran.

डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अध्यधीन प्रावधानों के अनुसरण में।
In pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001.

INTELLECTUAL PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

निर्गमन की तारीख/Date of Issue : 23/12/2022

महानियंत्रक पेटेंट डिजाइन और व्यापार चिह
Controller General of Patents, Designs and Trade Marks

पारस्परिकता तारीख (यदि कोई हो) जिसकी अनुमति देश के नाम पर की गई है। डिजाइन का सत्त्वाधिकार पंजीकरण की तारीख से दस वर्षों के लिए होगा जिसका विस्तार, अधिनियम एवं नियम के निबंधनों के अधीन, पाँच वर्षों की अतिरिक्त अवधि के लिए किया जा सकेगा। इस प्रमाण पत्र का उपयोग विधिक कार्यवाहियों अथवा विदेश में पंजीकरण प्राप्त करने के लिए नहीं हो सकता है।

*The reciprocity date (if any) which has been allowed and the name of the country.Copyright in the design will subsist for ten years from the date of Registration, and may under the terms of the Act and Rules, be extended for a further period of five years.This Certificate is not for use in legal proceedings or for obtaining registration abroad.

INTELLECTUAL PROPERTY INDIA
एकस्व/PATENTS | अभिकल्प/DESIGNS | व्यापार चिह्न/TRADE MARKS | भौगोलिक उपदर्शन/GEOGRAPHICAL INDICATIONS

सत्यमेव जयते

भारत सरकार
GOVERNMENT OF INDIA

एकस्व कार्यालय / THE PATENT OFFICE
बौद्धिक सम्पदा भवन / I.P.O. BUILDING
जी.एस.टी.रोड, गिंडी/ G.S.T.Road, Guindy,
चेन्नई/ Chennai- 600032
दूरभाष/ Tel. No. : (091)(044)22502081-84
फैक्स/ Fax: 044 22502066

Email/ई मेल : Chennai-patent@nic.in
वेबसाइट /Website: http://ipindia.nic.in

सं. \ No. 201741000346

दिनांक \ Dated the 15/11/2022

सेवा मे, \ To :

Address of Service:- Afsar S, IN/PA No. 1073, A-402 Casa Ansal, No. 18, Bannerghatta Main Road Bangalore 560 076, Karnataka. Mobile No. 7829915191 E-mail ID ipo@afsarandassociates.com
Email Id:- ipo@afsarandassociates.com,vvanitha@velsuniv.org

विषय :- पेटेंट आवेदन संख्या 201741000346 के संबंध मे अधिनियम की धारा 43 के तहत पेटेंट अनुदान तथा पेटेंट रजिस्टर मे प्रविष्टि की सूचना
Sub :- Intimation of the grant and recordal of patent under section 43 of the Act in respect of patent application no. 201741000346

महोदय/महोदया,
Sir/Madam,

आपको सूचित किया जाता है कि पेटेंट अधिनिय, 1970 की धारा 12 व 13 तथा उस आधार पर बने नियम के तहत उपर्युक्त पेटेंट आवेदन के परीक्षण [व 20/01/2022 को हुई सुनवाई] के उपरांत एतद्द्वारा पेटेंट अनुदान किया जाता है। तथा पेटेंट अनुदान की प्रविष्टि 15/11/2022 को पेटेंट रजिस्टर मे कर दी गयी है।

This is to Inform you that following the examination of above mentioned patent application under section 12 and 13 of The Patents Act, 1970 and Rules made thereunder [and hearing held on 20/01/2022] a patent is hereby granted and recorded in the Register of Patents on the 15/11/2022. The Patent Certificate is enclosed herewith.

पेटेंट संख्या \ Patent No	:	411456
आवेदक का नाम \ Name Of Applicant	:	THE REGISTRAR
पेटेंट दिनांक \ Date of Patent	:	04/01/2017
पूर्विक्ता तिथि \ Priority Date	:	04/01/2017
परीक्षण हेतु अनुरोध दाखिल करने की तिथि \ Filling date of Request for examination	:	09/09/2019
शीर्षक \ Title	:	AIR 'O' SPRING SUSPENSION SYSTEM
दावों की संख्या \ Number of claims	:	01

उपर्युक्त पेटेंट के अनुदान का प्रकाशन अधिनियम की धारा 43 के तहत पेटेंट कार्यालय के आधिकारिक जर्नल मे किया जाएगा।
The grant of above mentioned patent will be published in the Official Journal of the patent Office under section 43 of the Act.

पेटेंट अधिनियम 1970 यथा संशोधित पेटेंट (संशोधन) नियम, 2005/ पेटेंट नियम, 2003 यथा संशोधित पेटेंट (संशोधन) नियम, 2016 की धारा 142 की उप-धारा (4) के प्रावधानों के तहत उपरोक्त प्रविष्टि की तिथि से 3 माह के भीतर इस कार्यालय मे नवीकरण शुल्क जमा किया जाना चाहिए।
The payment of renewal fee is required to be made at this office within three(3) months from the aforesaid date of recording according to the proviso in sub-section(4) of Section 142 of The Patents Act,1970, as amended by The Patents (Amendment) Act, 2005 / The Patents Rules, 2003 as amended by The Patents (Amendment) Rules, 2016.

Vinod Prakash Vasava
(नियंत्रक पेटेंट)
Controller of Patents

टिप्पणी / Note :

1. संशोधित नवीकरण शुल्क हेतु कृपया महानियंत्रक पेटेंट, अभिकल्प एवं व्यापार चिह्न की आधिकारिक वैबसाइट www.ipindia.gov.in पर उपलब्ध पेटेंट (संशोधन) नियम 2016 की प्रथम अनुसूची (शुल्क) देखें।
For revised renewal fees kindly refer to the First Schedule (fees) of The Patents (Amendment) Rules 2016 available on the official website of Controller General of Patents, Designs and Trade Marks www.ipindia.gov.in
2. कार्यालय द्वारा पेटेंट प्रमाणपत्र की कोई भी कागजी प्रति अलग से जारी नहीं की जाएगी।
No hard copy of Patent Certificate shall be issued separately by the office.

INTELLECTUAL PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

सत्यमेव जयते

क्रमांक : 044146476
SL No :

भारत सरकार
GOVERNMENT OF INDIA
पेटेंट कार्यालय
THE PATENT OFFICE

पेटेंट प्रमाणपत्र
PATENT CERTIFICATE
(Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No.	:	411456
आवेदन सं. / Application No.	:	201741000346
फाइल करने की तारीख / Date of Filing	:	04/01/2017
पेटेंटी / Patentee	:	THE REGISTRAR

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित AIR 'O' SPRING SUSPENSION SYSTEM नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख जनवरी 2017 के चौथे दिन से बीस वर्ष की अवधि के लिए पेटेंट अनुदत्त किया गया है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled AIR 'O' SPRING SUSPENSION SYSTEM as disclosed in the above mentioned application for the term of 20 years from the 4th day of January 2017 in accordance with the provisions of the Patents Act,1970.

INTELLECTUAL PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

THE PATENT OFFICE GOVT. OF INDIA

अनुदान की तारीख :
Date of Grant : 15/11/2022

पेटेंट नियंत्रक
Controller of Patent

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, जनवरी 2019 के चौथे दिन को और उसके पश्चात प्रत्येक वर्ष मे उसी दिन देय होगी।

Note. - The fees for renewal of this patent, if it is to be maintained will fall / has fallen due on 4th day of January 2019 and on the same day in every year thereafter.

INTELLECTUAL PROPERTY INDIA
एकस्व/PATENTS | अभिकल्प/DESIGNS | व्यापार चिह्न/TRADE MARKS | भौगोलिक उपदर्शन/GEOGRAPHICAL INDICATIONS

सत्यमेव जयते

भारत सरकार
GOVERNMENT OF INDIA

एकस्व कार्यालय / THE PATENT OFFICE
बौद्धिक सम्पदा भवन / I.P.O. BUILDING
जी.एस.टी.रोड, गिंडी/ G.S.T.Road, Guindy,
चेन्नई/ Chennai- 600032
दूरभाष/ Tel. No. : (091)(044)22502081-84
फैक्स/ Fax: 044 22502066

Email/ई मेल : Chennai-patent@nic.in
वेबसाइट /Website: http://ipindia.nic.in

सं. \ No. 3560/CHE/2015

दिनांक \ Dated the 27/12/2022

सेवा मे, \ To :

Address of Service:- S Afsar (Patent Agent – IN/PA-1073), A-402, Casa Ansal, No. 18, Bannerghatta Main Road, Bangalore - 560076. E-mail ID ipo@afsarandassociates.com
Email Id:- ipo@afsarandassociates.com,vvanitha@velsuniv.org

विषय :- पेटेंट आवेदन संख्या 3560/CHE/2015 के संबंध मे अधिनियम की धारा 43 के तहत पेटेंट अनुदान तथा पेटेंट रजिस्टर मे प्रविष्टि की सूचना
Sub :- Intimation of the grant and recordal of patent under section 43 of the Act in respect of patent application no. 3560/CHE/2015

महोदय/महोदया,
Sir/Madam,

आपको सूचित किया जाता है कि पेटेंट अधिनिय, 1970 की धारा 12 व 13 तथा उस आधार पर बने नियम के तहत उपर्युक्त पेटेंट आवेदन के परीक्षण [व 07/10/2022 को हुई सुनवाई] के उपरांत एतद्द्वारा पेटेंट अनुदान किया जाता है। तथा पेटेंट अनुदान की प्रविष्टि 27/12/2022 को पेटेंट रजिस्टर मे कर दी गयी है।

This is to Inform you that following the examination of above mentioned patent application under section 12 and 13 of The Patents Act, 1970 and Rules made thereunder [and hearing held on 07/10/2022] a patent is hereby granted and recorded in the Register of Patents on the 27/12/2022. The Patent Certificate is enclosed herewith.

पेटेंट संख्या \ Patent No	:	415510
आवेदक का नाम \ Name Of Applicant	:	THE REGISTRAR
पेटेंट दिनांक \ Date of Patent	:	13/07/2015
पूर्विक्ता तिथि \ Priority Date	:	13/07/2015
परीक्षण हेतु अनुरोध दाखिल करने की तिथि \ Filling date of Request for examination	:	31/08/2016
शीर्षक \ Title	:	A ROAD DUST EXTRACTION SYSTEM
दावों की संख्या \ Number of claims	:	05

उपर्युक्त पेटेंट के अनुदान का प्रकाशन अधिनियम की धारा 43 के तहत पेटेंट कार्यालय के आधिकारिक जर्नल मे किया जाएगा।
The grant of above mentioned patent will be published in the Official Journal of the patent Office under section 43 of the Act.

पेटेंट अधिनियम 1970 यथा संशोधित पेटेंट (संशोधन) नियम, 2005/ पेटेंट नियम, 2003 यथा संशोधित पेटेंट (संशोधन) नियम, 2016 की धारा 142 की उप-धारा (4) के प्रावधानों के तहत उपरोक्त प्रविष्टि की तिथि से 3 माह के भीतर इस कार्यालय मे नवीकरण शुल्क जमा किया जाना चाहिए।
The payment of renewal fee is required to be made at this office within three(3) months from the aforesaid date of recording according to the proviso in sub-section(4) of Section 142 of The Patents Act,1970, as amended by The Patents (Amendment) Act, 2005 / The Patents Rules, 2003 as amended by The Patents (Amendment) Rules, 2016.

Dr. Shankar Dyal Bhatnagar
(नियंत्रक पेटेंट)
Controller of Patents

टिप्पणी / Note :

1. संशोधित नवीकरण शुल्क हेतु कृपया महानियंत्रक पेटेंट, अभिकल्प एवं व्यापार चिह्न की आधिकारिक वैबसाइट www.ipindia.gov.in पर उपलब्ध पेटेंट (संशोधन) नियम 2016 की प्रथम अनुसूची (शुल्क) देखें।
For revised renewal fees kindly refer to the First Schedule (fees) of The Patents (Amendment) Rules 2016 available on the official website of Controller General of Patents, Designs and Trade Marks www.ipindia.gov.in
2. कार्यालय द्वारा पेटेंट प्रमाणपत्र की कोई भी कागजी प्रति अलग से जारी नहीं की जाएगी।
No hard copy of Patent Certificate shall be issued separately by the office.

INTELLECTUAL PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

सत्यमेव जयते

क्रमांक : 044147887
SL No :

भारत सरकार
GOVERNMENT OF INDIA
पेटेंट कार्यालय
THE PATENT OFFICE

पेटेंट प्रमाणपत्र
PATENT CERTIFICATE

(Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No.	:	415510
आवेदन सं. / Application No.	:	3560/CHE/2015
फाइल करने की तारीख / Date of Filing	:	13/07/2015
पेटेंटी / Patentee	:	THE REGISTRAR

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित A ROAD DUST EXTRACTION SYSTEM नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख जुलाई 2015 के तेरहवें दिन से बीस वर्ष की अवधि के लिए पेटेंट अनुदत्त किया गया है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled A ROAD DUST EXTRACTION SYSTEM as disclosed in the above mentioned application for the term of 20 years from the 13th day of July 2015 in accordance with the provisions of the Patents Act,1970.

INTELLECTUAL PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

THE PATENT OFFICE
GOVT. OF INDIA

अनुदान की तारीख :
Date of Grant : 27/12/2022

पेटेंट नियंत्रक
Controller of Patent

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, जुलाई 2017 के तेरहवें दिन को और उसके पश्चात प्रत्येक वर्ष मे उसी दिन देय होगी।

Note. - The fees for renewal of this patent, if it is to be maintained will fall / has fallen due on 13th day of July 2017 and on the same day in every year thereafter.

INTELLECTUAL PROPERTY INDIA
एकस्व/PATENTS | अभिकल्प/DESIGNS | व्यापार चिह्न/TRADE MARKS | भौगोलिक उपदर्शन/GEOGRAPHICAL INDICATIONS

सत्यमेव जयते

भारत सरकार
GOVERNMENT OF INDIA

एकस्व कार्यालय / THE PATENT OFFICE
बौद्धिक सम्पदा भवन / I.P.O. BUILDING
जी.एस.टी.रोड, गिंडी/ G.S.T.Road, Guindy,
चेन्नई/ Chennai- 600032
दूरभाष/ Tel. No. : (091)(044)22502081-84
फैक्स/ Fax: 044 22502066

Email/ई मेल : Chennai-patent@nic.in
वेबसाइट /Website: http://ipindia.nic.in

सं. \ No. 3561/CHE/2015

दिनांक \ Dated the 29/06/2022

सेवा मे, \ To :

Address of Service:- THE REGISTRAR, P.V.VAITHIYALINGAM ROAD, VELAN NAGAR, VELS UNIVERSITY, PALLAVARAM, CHENNAI - 600 117, TAMIL NADU, vvanitha@velsuniv.org
Email Id:- vvanitha@velsuniv.org

विषय :- पेटेंट आवेदन संख्या 3561/CHE/2015 के संबंध मे अधिनियम की धारा 43 के तहत पेटेंट अनुदान तथा पेटेंट रजिस्टर मे प्रविष्टि की सूचना
Sub :- Intimation of the grant and recordal of patent under section 43 of the Act in respect of patent application no. 3561/CHE/2015

महोदय/महोदया,
Sir/Madam,

आपको सूचित किया जाता है कि पेटेंट अधिनिय, 1970 की धारा 12 व 13 तथा उस आधार पर बने नियम के तहत उपर्युक्त पेटेंट आवेदन के परीक्षण [व -------- को हुई सुनवाई] के उपरांत एतद्द्वारा पेटेंट अनुदान किया जाता है। तथा पेटेंट अनुदान की प्रविष्टि 29/06/2022 को पेटेंट रजिस्टर मे कर दी गयी है।

This is to Inform you that following the examination of above mentioned patent application under section 12 and 13 of The Patents Act, 1970 and Rules made thereunder [and hearing held on -------] a patent is hereby granted and recorded in the Register of Patents on the 29/06/2022. The Patent Certificate is enclosed herewith.

पेटेंट संख्या \ Patent No	:	400412
आवेदक का नाम \ Name Of Applicant	:	THE REGISTRAR, VELS UNIVERSITY
पेटेंट दिनांक \ Date of Patent	:	13/07/2015
पूर्विक्ता तिथि \ Priority Date	:	13/07/2015
परीक्षण हेतु अनुरोध दाखिल करने की तिथि \ Filling date of Request for examination	:	20/03/2017
शीर्षक \ Title	:	TANGENTIAL SUSPENSION SYSTEM FOR TWO WHEELER AUTOMOILES
दावों की संख्या \ Number of claims	:	Amended claims 1-2 filed on 19/03/2020.

उपर्युक्त पेटेंट के अनुदान का प्रकाशन अधिनियम की धारा 43 के तहत पेटेंट कार्यालय के आधिकारिक जर्नल मे किया जाएगा।
The grant of above mentioned patent will be published in the Official Journal of the patent Office under section 43 of the Act.

पेटेंट अधिनियम 1970 यथा संशोधित पेटेंट (संशोधन) नियम, 2005/ पेटेंट नियम, 2003 यथा संशोधित पेटेंट (संशोधन) नियम, 2016 की धारा 142 की उप-धारा (4) के प्रावधानों के तहत उपरोक्त प्रविष्टि की तिथि से 3 माह के भीतर इस कार्यालय मे नवीकरण शुल्क जमा किया जाना चाहिए।
The payment of renewal fee is required to be made at this office within three(3) months from the aforesaid date of recording according to the proviso in sub-section(4) of Section 142 of The Patents Act,1970, as amended by The Patents (Amendment) Act, 2005 / The Patents Rules, 2003 as amended by The Patents (Amendment) Rules, 2016.

Pramathesh Sen
(नियंत्रक पेटेंट)
Controller of Patents

टिप्पणी / Note :

1. संशोधित नवीकरण शुल्क हेतु कृपया महानियंत्रक पेटेंट, अभिकल्प एवं व्यापार चिह्न की आधिकारिक वैबसाइट www.ipindia.gov.in पर उपलब्ध पेटेंट (संशोधन) नियम 2016 की प्रथम अनुसूची (शुल्क) देखें।
For revised renewal fees kindly refer to the First Schedule (fees) of The Patents (Amendment) Rules 2016 available on the official website of Controller General of Patents, Designs and Trade Marks www.ipindia.gov.in
2. कार्यालय द्वारा पेटेंट प्रमाणपत्र की कोई भी कागजी प्रति अलग से जारी नहीं की जाएगी।
No hard copy of Patent Certificate shall be issued separately by the office.

INTELLECTUAL PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

सत्यमेव जयते

क्रमांक : 044142521
SL No :

भारत सरकार
GOVERNMENT OF INDIA
पेटेंट कार्यालय
THE PATENT OFFICE

पेटेंट प्रमाणपत्र
PATENT CERTIFICATE

(Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No.	:	400412
आवेदन सं. / Application No.	:	3561/CHE/2015
फाइल करने की तारीख / Date of Filing	:	13/07/2015
पेटेंटी / Patentee	:	THE REGISTRAR, VELS UNIVERSITY

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित TANGENTIAL SUSPENSION SYSTEM FOR TWO WHEELER AUTOMOILES नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख जुलाई 2015 के तेरहवें दिन से बीस वर्ष की अवधि के लिए पेटेंट अनुदत्त किया गया है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled TANGENTIAL SUSPENSION SYSTEM FOR TWO WHEELER AUTOMOILES as disclosed in the above mentioned application for the term of 20 years from the 13th day of July 2015 in accordance with the provisions of the Patents Act,1970.

पेटेंट कार्यालय THE PATENT OFFICE GOVT. OF INDIA भारत सरकार

अनुदान की तारीख : Date of Grant : 29/06/2022

पेटेंट नियंत्रक
Controller of Patent

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, जुलाई 2017 के तेरहवें दिन को और उसके पश्चात प्रत्येक वर्ष मे उसी दिन देय होगी।

Note. - The fees for renewal of this patent, if it is to be maintained will fall / has fallen due on 13th day of July 2017 and on the same day in every year thereafter.

Australian Government

IP Australia

CERTIFICATE OF GRANT

INNOVATION PATENT

Patent number: 2021100809

The Commissioner of Patents has granted the above patent on 7 April 2021, and certifies that the below particulars have been registered in the Register of Patents.

Name and address of patentee(s):

M.Mathan Kumar of Geethanjali Institute of Science & Tech., 3rd Mile, Bombay Highway, Gangavaram(V) S.P.S.R. Andhra Pradesh 524137 India

Sushma Jaiswal of Assistant Professor, CSIT, Guru Ghasidas Central University Bilaspur Chhattisgarh India

Veerraju Gampala of Department of Computer Science & Engg., Koneru Lakshmaiah Education Foundation, Vaddeswaram Guntur Andhra Pradesh 522502 India

Shaisundaram V S of Asst Professor, Dept. of Automobile Engg, Vels Institute Of Science Technology and, Advanced Studies Chennai Tamilnadu India

Challa Vijaya Bhaskar Reddy of Sri Venkateswara College of Engineering, and Technology, RVS Nagar Chittoor Andhra Pradesh 517127 India

Sivakumar R D of Bell Institute Sivakasi Tamil Nadu 626 141 India

Snehalkumar H Mistry of Director, Bhagwan Mahavir College of, Management, VIP Road, Bharthana - Vesu Surat, Gujarat 395007 India

Amandeep singh of Gulzar Group Of Institutes, Grand Trunk Road Libra, Khanna Ludhiana Punjab 141401 India

R. Krishnamoorthy of Sree Sastha Institute of Engg & Tech. Chennai Tamil Nadu India

M. Amina Begum of Sree Sastha Institute of Engg & Tech Chennai Tamil Nadu India

Title of invention:

IOT BASED OPTIMAL MANAGEMENT OF SMART FARMS USING WIND POWER SYSTEM

Name of inventor(s):

Kumar, M. Mathan; Jaiswal, Sushma; Gampala, Veerraju; V. S., Shaisundaram; Reddy, Challa Vijaya Bhaskar; R D, Sivakumar; Mistry, Snehalkumar H.; singh, Amandeep; Krishnamoorthy, R. and Begum, M. Amina

Term of Patent:

Eight years from 10 February 2021

NOTE: This Innovation Patent cannot be enforced unless and until it has been examined by the Commissioner of Patents and a Certificate of Examination has been issued. See sections 120(1A) and 129A of the Patents Act 1990, set out on the reverse of this document.

COMMONWEALTH OF AUSTRALIA AUSTRALIA PATENT OFFICE

Dated this 7th day of April 2021

Commissioner of Patents

PATENTS ACT 1990

The Australian Patents Register is the official record and should be referred to for the full details pertaining to this IP Right.

Extracts from the Patents Act, 1990

Sect 120(1A) Infringement proceedings in respect of an innovation patent cannot be started unless the patent has been certified.

Sec 128 **Application for relief from unjustified threats**

(1) Where a person, by means of circulars, advertisements or otherwise, threatens a person with infringement proceedings or other similar proceedings a person aggrieved may apply to a prescribed court, or to another court having jurisdiction to hear and determine the application, for:

(a) a declaration that the threats are unjustifiable; and

(b) an injunction against the continuance of the threats; and

(c) the recovery of any damages sustained by the applicant as a result of the threats.

(2) Subsection (1) applies whether or not the person who made the threats is entitled to, or interested in, the patent or a patent application.

Sec 129A **Threats related to an innovation patent application or innovation patent and courts power to grant relief.**

Certain threats of infringement proceedings are always unjustifiable.

(1) If:

(a) a person:

(i) has applied for an innovation patent, but the application has not been determined; or

(ii) has an innovation patent that has not been certified; and

(b) the person, by means of circulars, advertisements or otherwise, threatens a person with infringement proceedings or other similar proceedings in respect of the patent applied for, or the patent, as the case may be;

then, for the purposes of an application for relief under section 128 by the person threatened, the threats are unjustifiable.

Courts power to grant relief in respect of threats made by the applicant for an innovation patent or the patentee of an uncertified innovation patent

(2) If an application under section 128 for relief relates to threats made in respect of an innovation patent that has not been certified or an application for an innovation patent, the court may grant the application the relief applied for.

Courts power to grant relief in respect of threats made by the patentee of certified innovation patent

(3) If an application under section 128 for relief relates to threats made in respect of a certified innovation patent, the court may grant the applicant the relief applied for unless the respondent satisfies the court that the acts about which the threats were made infringed, or would infringe, a claim that is not shown by the applicant to be invalid.

Schedule 1 **Dictionary**

certified, in respect of an innovation patent other than in section 19, means a certificate of examination issued by the Commissioner under paragraph 101E(e) in respect of the patent

Australian Government

IP Australia

CERTIFICATE OF GRANT

INNOVATION PATENT

Patent number: 2021100346

The Commissioner of Patents has granted the above patent on 31 March 2021, and certifies that the below particulars have been registered in the Register of Patents.

Name and address of patentee(s):

Sandeep Arya of Department of Physics, University of Jammu Jammu and Kashmir India

Prof. N.Vasantha Gowri of Assistant Professor Department of EEE, Chaitanyabharathi institute of tech., (a) Gandipet Hyderabad India

V. Nandagopal of Professor, Dept. of E & EE, Er.Perumal Manimekalai College of Engg, and technology Hosur India

Rajkumar. E of Associate Professor, School of Mechanical Engineering, Vellore Institute of Technology Vellore India

C. Tamizhselvan of 45, Pillayar Koil street, Sandhai Pudukuppam Pondicherry India

Prashant Krishnaraokharat of Assistant Prof. & Control of Examination, Department of Information Technology, Walchand College of Engineering Sangli prashat India

Priyabrata Sahu of Assistant Prof., Dept. of Computer Sci., Engg. & Applications, Indira Gandhi Institute of Technology Sarang Odisha 759146 India

Bapuji Rao of Assistant Professor Department of CSEA, Indira Gandhi Institute of Technology, Sarang Dhenkanal Odisha India

Revathi. R of Assistant professor, Idhaya College of Arts & Sci. for Women Pondicherry India

Mohammed Imtyaz Ahmed of Research Scholar (Ph.D.), Dept. E & CE, B.S. AbdurRahman Crescent Inst, of Science & Technology Chennai Tamilnadu India

Radha Raman Pandey of Principal & Professor, Department of ECE, Advanced Institute of Tech. & Management Delhi - NCR India

Jayasri Murali of Assistant Professor, SavitribhaiPhule Pune University, ATSS Institute of Industrial & Comp Management and Research, Pune India

E. N. Ganesh of Dean & School of Engineering, Vels Institute of Science, Technology & Advanced Studies (VISTAS) Chennai India

Pavithra G. of Research Consultant, Sakala Enterprises (P) Ltd., House No.132, 1st Floor, 1st Cross, 3rd Main, AMCO Layout Sahakar Nagar, Bangalore Karnataka 560092 India

T.C. Manjunath of Professor & HOD, Electronics & Communication Engg Dept., DayanandaSagar College of Engg. Kumaraswamy Layout Shavigemalleshwara Hills, Bangalore 560078 India

D. Ravikumar of Associate Professor & Head. Dept. of ECE, Vels Institute of Science, Technology & Advanced Studies (VISTAS) Chennai India

V. Devi of Professor & Head, Department of Computer Applications, Gurunanak College (Autonomous) Chennai India

COMMONWEALTH OF AUSTRALIA AUSTRALIA PATENT OFFICE

Dated this 31st day of March 2021

Commissioner of Patents

PATENTS ACT 1990

The Australian Patents Register is the official record and should be referred to for the full details pertaining to this IP Right.

This data, for application number 2021100346, is current as of 2021-07-08 21:00 AEST

Australian Government

IP Australia

CERTIFICATE OF GRANT

INNOVATION PATENT

Patent number: 2021100346

Hariprasath Manoharan of Assistant Professor, Audisankara college of Engg. and Tech. Gudur Andhra Pradesh 524101 India

Vijayakumar Peroumal of A84, Golden Garden, Tata Value Home, New Haven Ribbon Walk, Mambakkam Chennai India

Pravin R. Kshirsagar of Professor & Head, Electronics & Communication Engineering, AVN Institute of Engineering & Tech. Hyderabad Telangana 501510 India

Title of invention:

AN IOT BASED SYSTEM FOR SECURITY AND DOOR ACCESS CONTROL

Name of inventor(s):

Arya, Sandeep; Gowri, Prof. N.Vasantha; Nandagopal, V.; E., Rajkumar.; Tamizhselvan, C.; Krishnaraokharat, Prashant; Sahu, Priyabrata; Rao, Bapuji; R., Revathi.; Ahmed, Mohammed Imtyaz; Pandey, Radha Raman; Murali, Jayasri; Ganesh, E. N.; G., Pavithra; Manjunath, T.C.; Ravikumar, D.; Devi, V.; Manoharan, Hariprasath; Peroumal, Vijayakumar and Kshirsagar, Pravin R.

Term of Patent:

Eight years from 20 January 2021

NOTE: This Innovation Patent cannot be enforced unless and until it has been examined by the Commissioner of Patents and a Certificate of Examination has been issued. See sections 120(1A) and 129A of the Patents Act 1990, set out on the reverse of this document.

COMMONWEALTH OF AUSTRALIA AUSTRALIA PATENT OFFICE

Dated this 31st day of March 2021

Commissioner of Patents

PATENTS ACT 1990

The Australian Patents Register is the official record and should be referred to for the full details pertaining to this IP Right.

Extracts from the Patents Act, 1990

Sect 120(1A) Infringement proceedings in respect of an innovation patent cannot be started unless the patent has been certified.

Sec 128 **Application for relief from unjustified threats**

(1) Where a person, by means of circulars, advertisements or otherwise, threatens a person with infringement proceedings or other similar proceedings a person aggrieved may apply to a prescribed court, or to another court having jurisdiction to hear and determine the application, for:

(a) a declaration that the threats are unjustifiable; and

(b) an injunction against the continuance of the threats; and

(c) the recovery of any damages sustained by the applicant as a result of the threats.

(2) Subsection (1) applies whether or not the person who made the threats is entitled to, or interested in, the patent or a patent application.

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Certain threats of infringement proceedings are always unjustifiable.

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(ii) has an innovation patent that has not been certified; and

(b) the person, by means of circulars, advertisements or otherwise, threatens a person with infringement proceedings or other similar proceedings in respect of the patent applied for, or the patent, as the case may be;

then, for the purposes of an application for relief under section 128 by the person threatened, the threats are unjustifiable.

Courts power to grant relief in respect of threats made by the applicant for an innovation patent or the patentee of an uncertified innovation patent

(2) If an application under section 128 for relief relates to threats made in respect of an innovation patent that has not been certified or an application for an innovation patent, the court may grant the application the relief applied for.

Courts power to grant relief in respect of threats made by the patentee of certified innovation patent

(3) If an application under section 128 for relief relates to threats made in respect of a certified innovation patent, the court may grant the applicant the relief applied for unless the respondent satisfies the court that the acts about which the threats were made infringed, or would infringe, a claim that is not shown by the applicant to be invalid.

Schedule 1 **Dictionary**

certified, in respect of an innovation patent other than in section 19, means a certificate of examination issued by the Commissioner under paragraph 101E(e) in respect of the patent

Australian Government
IP Australia

CERTIFICATE OF GRANT
INNOVATION PATENT

Patent number: 2020104386

The Commissioner of Patents has granted the above patent on 17 March 2021, and certifies that the below particulars have been registered in the Register of Patents.

Name and address of patentee(s):

Praveen S of Research Scholar, Vels Institute of Science, Technology &, Advanced Studies pallavaram chennai Tamilnadu 600043 India

E.N. Ganesh of Dean, Vels Institute of Science, Technology &, Advanced Studies pallavaram chennai Tamilnadu 600043 India

Mahesh S. of Research Scholar, Vels Institute of Science, Technology &, Advanced Studies pallavaram chennai Tamilnadu 600043 India

Nagaraj D. of Research Scholar, Vels Institute of Science, Technology &, Advanced Studies pallavaram chennai Tamilnadu 600043 India

Title of invention:

A SYSTEM AND METHOD FOR MONITORING, SENSING, ANALYZING AND HANDLING THE PRE-DETERMINED STATUS OF THE LIQUID METALS

Name of inventor(s):

S., Praveen; Ganesh, E.N.; S., Mahesh and D., Nagaraj

Term of Patent:

Eight years from 29 December 2020

NOTE: This Innovation Patent cannot be enforced unless and until it has been examined by the Commissioner of Patents and a Certificate of Examination has been issued. See sections 120(1A) and 129A of the Patents Act 1990, set out on the reverse of this document.

COMMONWEALTH OF AUSTRALIA
AUSTRALIA
PATENT OFFICE

Dated this 17th day of March 2021

Commissioner of Patents

PATENTS ACT 1990

The Australian Patents Register is the official record and should be referred to for the full details pertaining to this IP Right.

This data, for application number 2020104386, is current as of 2021-07-08 21:00 AEST

Extracts from the Patents Act, 1990

Sect 120(1A) Infringement proceedings in respect of an innovation patent cannot be started unless the patent has been certified.

Sec 128 **Application for relief from unjustified threats**

(1) Where a person, by means of circulars, advertisements or otherwise, threatens a person with infringement proceedings or other similar proceedings a person aggrieved may apply to a prescribed court, or to another court having jurisdiction to hear and determine the application, for:

(a) a declaration that the threats are unjustifiable; and

(b) an injunction against the continuance of the threats; and

(c) the recovery of any damages sustained by the applicant as a result of the threats.

(2) Subsection (1) applies whether or not the person who made the threats is entitled to, or interested in, the patent or a patent application.

Sec 129A **Threats related to an innovation patent application or innovation patent and courts power to grant relief.**

Certain threats of infringement proceedings are always unjustifiable.

(1) If:

(a) a person:

(i) has applied for an innovation patent, but the application has not been determined; or

(ii) has an innovation patent that has not been certified; and

(b) the person, by means of circulars, advertisements or otherwise, threatens a person with infringement proceedings or other similar proceedings in respect of the patent applied for, or the patent, as the case may be;

then, for the purposes of an application for relief under section 128 by the person threatened, the threats are unjustifiable.

Courts power to grant relief in respect of threats made by the applicant for an innovation patent or the patentee of an uncertified innovation patent

(2) If an application under section 128 for relief relates to threats made in respect of an innovation patent that has not been certified or an application for an innovation patent, the court may grant the application the relief applied for.

Courts power to grant relief in respect of threats made by the patentee of certified innovation patent

(3) If an application under section 128 for relief relates to threats made in respect of a certified innovation patent, the court may grant the applicant the relief applied for unless the respondent satisfies the court that the acts about which the threats were made infringed, or would infringe, a claim that is not shown by the applicant to be invalid.

Schedule 1 **Dictionary**

certified, in respect of an innovation patent other than in section 19, means a certificate of examination issued by the Commissioner under paragraph 101E(e) in respect of the patent

Australian Government
IP Australia

CERTIFICATE OF GRANT
INNOVATION PATENT

Patent number: 2021101846

The Commissioner of Patents has granted the above patent on 19 May 2021, and certifies that the below particulars have been registered in the Register of Patents.

Name and address of patentee(s):

Sheela D. of Professor, Department of ECE, Saveetha School of Engineering ,Saveetha Institute of Medical and Technical Sciences, Saveetha University Chennai India

Manimegalai T. of Professor, Department of CSE, Saveetha School of Engineering, Saveetha Institute of Medical and Technical Sciences ,Saveetha University Chennai, Tamilnadu India

Geetha R. of Associate Professor, Department of Information Technology, Saveetha School of Engineering Saveetha Institute of Medical and Technical Sciences, Saveetha University Chennai India

Ganesh E.N. of Dean Engineering, Dean.se@velsuniv.ac.in Vels Institute of Science, Technology & Advanced Studies (VISTAS) chennai India

Saravanakumar V. of Associate Prof, Department of IT, SreeNidhi Institute of Science and Technology, Yamnampet, Hyderabad Telangana India

Vinay Kumar Nassa of Principal/Professor, Department of CSE, South point group of institutions Sonepet, Haryana vinay_nassa@rediffmail.com India

K. MEENA of Professor, Department of Computer Science and Engg., School of Computing Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology, Chennai India

Title of invention:

Reduced Data Rate and Triboelectric Nano Generator for Direct Sensory Transmission in Short Range Wireless Sensor Network

Name of inventor(s):

D., Sheela; T., Manimegalai; R., Geetha; E. N., Ganesh; V., Saravanakumar; Nassa, Vinay Kumar and K., MEENA

Term of Patent:

Eight years from 10 April 2021

NOTE: This Innovation Patent cannot be enforced unless and until it has been examined by the Commissioner of Patents and a Certificate of Examination has been issued. See sections 120(1A) and 129A of the Patents Act 1990, set out on the reverse of this document.

COMMONWEALTH OF AUSTRALIA
AUSTRALIA
PATENT OFFICE

Dated this 19th day of May 2021

Commissioner of Patents

PATENTS ACT 1990

The Australian Patents Register is the official record and should be referred to for the full details pertaining to this IP Right.

This data, for application number 2021101846, is current as of 2021-07-08 21:00 AEST

Extracts from the Patents Act, 1990

Sect 120(1A) Infringement proceedings in respect of an innovation patent cannot be started unless the patent has been certified.

Sec 128 **Application for relief from unjustified threats**

(1) Where a person, by means of circulars, advertisements or otherwise, threatens a person with infringement proceedings or other similar proceedings a person aggrieved may apply to a prescribed court, or to another court having jurisdiction to hear and determine the application, for:

(a) a declaration that the threats are unjustifiable; and

(b) an injunction against the continuance of the threats; and

(c) the recovery of any damages sustained by the applicant as a result of the threats.

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Courts power to grant relief in respect of threats made by the applicant for an innovation patent or the patentee of an uncertified innovation patent

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(3) If an application under section 128 for relief relates to threats made in respect of a certified innovation patent, the court may grant the applicant the relief applied for unless the respondent satisfies the court that the acts about which the threats were made infringed, or would infringe, a claim that is not shown by the applicant to be invalid.

Schedule 1 **Dictionary**

certified, in respect of an innovation patent other than in section 19, means a certificate of examination issued by the Commissioner under paragraph 101E(e) in respect of the patent

Australian Government

IP Australia

CERTIFICATE OF GRANT

INNOVATION PATENT

Patent number: 2020102249

The Commissioner of Patents has granted the above patent on 14 October 2020, and certifies that the below particulars have been registered in the Register of Patents.

Name and address of patentee(s):

Nachiyappan S of Assistant Professor (Sr.), School of Computer Science and Engg., Vellore Institute of Technology Chennai Tamilnadu India

Satyanand Singh of Assistant Professor, Department of ECE Fiji National University Fiji

Suresh K of Associate Professor, Department of Computer Science and Engg., Chennai Institute of Technology Kundrathur Chennai-69 India

Sreerama Murthy K of Sreenidhi institute of science and tech., Associate professor IT DEPT Hyderabad Telangana 501301 India

Vengatesan K of Professor, Department of Computer Engineering, Sanjivani College of Engineering Kopargaon Maharastra 423 603 India

Pragya Singh of Associate Professor, Department of public health, College of Medicine Nursing and Health Sciences Fiji National University Fiji

Bhagyalakshmi L of Professor, Department of ECE, Rajalakshmi Engineering College Chennai Tamilnadu India

Sanjay Kumar Suman of Professor, Department of ECE, Bharat Institute of Engineering and Tech Hyderabad Telangana India

Sundar Rajan M of Associate Professor, Department of Industrial Control and Ins, Faculty of Electrical and Computer Engg. Institute of Technology Arbaminch University, Arbaminch PO No. 21 Ethiopia

Ganesh E. N of Dean School of Engineering VISTAS,chennai Tamilnadu India

Title of invention:

WATER CONSUMPTION CONTROL SYSTEM FOR IRRIGATION BASED ON IoT

Name of inventor(s):

P., Padmanabhan; Arun, S. and A., Nageswaran

Term of Patent:

Eight years from 15 September 2020

NOTE: This Innovation Patent cannot be enforced unless and until it has been examined by the Commissioner of Patents and a Certificate of Examination has been issued. See sections 120(1A) and 129A of the Patents Act 1990, set out on the reverse of this document.

COMMONWEALTH OF AUSTRALIA AUSTRALIA PATENT OFFICE

Dated this 14th day of October 2020

Commissioner of Patents

PATENTS ACT 1990

The Australian Patents Register is the official record and should be referred to for the full details pertaining to this IP Right.

This data, for application number 2020102249, is current as of 2021-07-08 21:00 AEST

Extracts from the Patents Act, 1990

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PATENT GRANTED

ORIGINAL

No. 81185

सत्यमेव जयते

भारत सरकार
GOVERNMENT OF INDIA
पेटेंट कार्यालय
THE PATENT OFFICE

CERTIFICATE OF REGISTRATION OF DESIGN

Design No.	287078
Date	20/09/2016
Reciprocity Date*	
Country	

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 15-01 in respect of the application of such design to TWIN CROWN PISTON in the name of 1.THE REGISTRAR, VELS UNIVERSITY, P.V. VAITHIYALINGAM ROAD, VELANNAGAR, PALLAVARAM, CHENNAI – 600117, TN, INDIA. 2. VINOD KUMAR THANGARAJ, DEPARTMENT OF MECHANICAL ENGINEERING, SCHOOL OF ENGINEERING, VELS UNIVERSITY, P.V. VAITHIYALINGAM ROAD, VELAN NAGAR, PALLAVARAM, CHENNAI – 600117, TN, INDIA. 3. CHANDRASEKARAN MANOHARAN, DEPARTMENT OF MECHANICAL ENGINEERING, SCHOOL OF ENGINEERING, VELS UNIVERSITY, P.V. VAITHIYALINGAM ROAD, VELAN NAGAR, PALLAVARAM, CHENNAI – 600117, TN, INDIA. 4. SIBI NAVANEETHA KRISHNAN, DEPARTMENT OF MECHANICAL ENGINEERING, SCHOOL OF ENGINEERING, VELS UNIVERSITY, P.V. VAITHIYALINGAM ROAD, VELAN NAGAR, PALLAVARAM, CHENNAI – 600117, TN, INDIA. , ET AL.

In pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001.

Controller General of Patents, Designs and Trade Marks

*The reciprocity date (if any) which has been allowed and the name of the country.
Copyright in the design will subsist for ten years from the date of Registration, and may underthe terms of the Act and Rules, be extended for a further period of five years.
This Certificate is not for use in legal proceedings or for obtaining registration abroad.

DR. A.R. VEERAMANI (THE REGISTRAR),
VELS UNIVERSITY, P.V. VAITHIYALINGAM ROAD,
VELANNAGAR, PALLAVARAM, CHENNAI – 600117, TN,
INDIA.

Date of Issue 12/09/2019 13:04:58

INTELLECTUAL PROPERTY INDIA
PATENTS DESIGNS TRADE MARKS
GEOGRAPHICAL INDICATIONS

Australian Government

IP Australia

CERTIFICATE OF GRANT

INNOVATION PATENT

Patent number: 2021106691

The Commissioner of Patents has granted the above patent on 8 December 2021, and certifies that the below particulars have been registered in the Register of Patents.

Name and address of patentee(s):

Vels Institute of Science Technology and Advanced Studies of Velan Nagar, P.V. Vaithialingam Road, Old Pallavaram Chennai 600117 India

Title of invention:

A SYSTEM AND A METHOD FOR DETECTION OF DRIVER STATE WITH ELECTROCARDIOGRAM (ECG)

Name of inventor(s):

Suganiya, M.; Selvaraj, Jerritta and Sahayadhas, Arun

Term of Patent:

Eight years from 24 August 2021

NOTE: This Innovation Patent cannot be enforced unless and until it has been examined by the Commissioner of Patents and a Certificate of Examination has been issued. See sections 120(1A) and 129A of the Patents Act 1990, set out on the reverse of this document.

COMMONWEALTH OF AUSTRALIA AUSTRALIA PATENT OFFICE

Dated this 8th day of December 2021

Commissioner of Patents

PATENTS ACT 1990

The Australian Patents Register is the official record and should be referred to for the full details pertaining to this IP Right.

Extracts from the Patents Act, 1990

Sect 120(1A) Infringement proceedings in respect of an innovation patent cannot be started unless the patent has been certified.

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Australian Government

IP Australia

CERTIFICATE OF GRANT

INNOVATION PATENT

Patent number: 2021103913

The Commissioner of Patents has granted the above patent on 30 March 2022, and certifies that the below particulars have been registered in the Register of Patents.

Name and address of patentee(s):

Arun Raaza of Deputy Director - R&D, VISTAS, Pallavaram Chennai TAMIL NADU 600117 India

Ridham Tapan Vora of Flat no. 1005 Damas Building, King Faisal road, Abu Shagarah Sharjah United Arab Emirates

Omar Mohammad Abu Qadah of Ben Mahmoud, Shaik Khaled compound, Building 1 Floor 6 Flat 610 Doha Qatar

Naguboina Manotajasvini of 3-5-77, Rajgopalapuram 3rd Street, Opp Kk Kalyana Mandapam, Naidupeta SPSR Nellore Andhra Pradesh 524126 India

Akash Mark Mani of Alkhor Hospital, Lab Medical & Pathology, Hamad Medical Corporation, P.O.Box 3050 Doha Qatar

Aadil Fatah Salam of Sohar International - IT Division, PB:44, PC:114 Muscat Oman

Divyanka Padhy of Amiantit Oman Company LLC, P.O Box :405, Postal Code 211 Salalah Sultanate of Oman Oman

Aaron Zachariah Thomas of P.O. Box. 32527, Al Muntaza Doha Qatar

Laxmi Naarayanan Ramaswamy of G3 - Abinayam Flats - Oil Mill Road, Iyappanthangal Chennai Tamil Nadu 600056 India

T. M. Thamizh Thentral of Assistant Professor, Dept. of EEE, SRM Institute of Science and Technology Kattankulathur, Chennai Tamil Nadu 603203 India

Title of invention:

An IoT controlled tilt indicating device

Name of inventor(s):

Raaza, Arun; Vora, Ridham Tapan; Abu Qadah, Omar Mohammad; Manotajasvini, Naguboina; Mani, Akash Mark; Salam, Aadil Fatah; Padhy, Divyanka; Thomas, Aaron Zachariah; Ramaswamy, Laxmi Naarayanan and Thentral, T. M. Thamizh

Term of Patent:

Eight years from 7 July 2021

NOTE: This Innovation Patent cannot be enforced unless and until it has been examined by the Commissioner of Patents and a Certificate of Examination has been issued. See sections 120(1A) and 129A of the Patents Act 1990, set out on the reverse of this document.

COMMONWEALTH OF AUSTRALIA AUSTRALIA PATENT OFFICE

Dated this 30th day of March 2022

Commissioner of Patents

PATENTS ACT 1990

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Australian Government

IP Australia

CERTIFICATE OF GRANT

INNOVATION PATENT

Patent number: 2021106747

The Commissioner of Patents has granted the above patent on 1 December 2021, and certifies that the below particulars have been registered in the Register of Patents.

Name and address of patentee(s):

Arun Raaza of Deputy Director - R&D, VISTAS, Pallavaram Chennai Tamil Nadu 600117 India

Navaneetha Krishnan R of Sohar University, PO Box 44, PC 311 Sohar Oman

Paviksha Hari Prasath of Bldg 266, Flat#1, Al-Hambar, PO Box: 519, Postal Code:311 Sohar Oman

Ahaan Saxena of Flat No. 5A1, Floor 5, Musheireb 7, Building No. 61, Street No. 810, Al Fayahaa Street, Zone 13, Musheireb Doha Qatar

Vihaan Saxena of Flat No. 5A1, Floor 5, Musheireb 7, Building No. 61, Street No. 810, Al Fayahaa Street, Zone 13, Musheireb Doha Qatar

David John Jacob of Flat # 206, Beit Al Khair Society Building, near NMC speciality hospital, Al Nahda 2, P. O. Box 85816 Dubai United Arab Emirates

Amelia Ann Jacob of Flat # 206, Beit Al Khair Society Building, near NMC speciality hospital, Al Nahda 2, P. O. Box 85816 Dubai United Arab Emirates

Venkat Sridath Bonam of Post box no 455, PC-121 SEEB Oman

Dhriti Basu of Villa number 4055B, Al Hambar Post box number 1321, North Batinah, Postal Code 311 Sohar Oman

Suhas K N S of H.No:14-6-51, Vinjamuri Vari Street, Bapatla Guntur Dist Andhra Pradesh India

Shashank Parthiban of #209 Al Humaid Al Owasis Building, Al Warqaa 2 Dubai United Arab Emirates

Arhaan Soratiya of PO Box : 908, PC 131 Muscat Oman

Jyoshita Datta Juluru of C203, Alassalah Towers, Near GMC Showroom, Al-Ghubra Muscat Oman

Daizy Paul of Principal Ryan International School, P.O. Box 2913, Muwalih - Commercial Sharjah United Arab Emirates

Rishika D of Ryan International School, P.O. Box 2913, Muwalih - Commercial Sharjah United Arab Emirates

Title of invention:

INTERNET OF THINGS BASED STUDENT PRESENCE NOTIFICATION DEVICE FOR SCHOOL AND SCHOOL BUSES

Name of inventor(s):

Raaza, Arun; R., Navaneetha Krishnan; Hari Prasath, Paviksha; Saxena, Ahaan; Saxena, Vihaan; Jacob, David John; Jacob, Amelia Ann; Bonam, Venkat Sridath; Basu, Dhriti; K. N. S., Suhas; Parthiban, Shashank; Soratiya, Arhaan; Juluru, Jyoshita Datta; Paul, Daizy and D, Rishika

COMMONWEALTH OF AUSTRALIA AUSTRALIA PATENT OFFICE

Dated this 1st day of December 2021

Commissioner of Patents

PATENTS ACT 1990

The Australian Patents Register is the official record and should be referred to for the full details pertaining to this IP Right.

Australian Government

IP Australia

CERTIFICATE OF GRANT

INNOVATION PATENT

Patent number: 2021106747

Term of Patent:

Eight years from 24 August 2021

NOTE: This Innovation Patent cannot be enforced unless and until it has been examined by the Commissioner of Patents and a Certificate of Examination has been issued. See sections 120(1A) and 129A of the Patents Act 1990, set out on the reverse of this document.

Dated this 1st day of December 2021

Commissioner of Patents

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Australian Government

IP Australia

CERTIFICATE OF GRANT

INNOVATION PATENT

Patent number: 2021104384

The Commissioner of Patents has granted the above patent on 23 March 2022, and certifies that the below particulars have been registered in the Register of Patents.

Name and address of patentee(s):

Arun Raaza of Deputy Director - R&D, VISTAS, Pallavaram Chennai Tamil Nadu 600117 India

Dhayaa Ranjjan A.K of G-3, Sree Daksha's Adyant Apartment, Navavoor Pirivu, Vadavalli Coimbatore Tamil Nadu 641046 India

Vedanth Anand of Al Assalah towers, F 603, Way no 3701, PO box 3168, Building No 219 PC 112 Ghubra Muscat Oman

Angela Mariam Jacob of Kochuthekedathu, Kuttapuzha P. O, Tiruvalla Pathanamthitta Kerala 689103 India

Dorar Khamis Salim Alsouli of House Number 209 Muscat Oman

Jesson Paul JayaKumar of New no 72, Babu Nagar, Anna salai, Pattabiram Chennai Tamil Nadu 6000072 India

Jamal Wassim Ezzeddine of Al Khoud, Building No 691, Plot No 1984, Block No 336, Street No 43, Mazoon Street, 3rd Floor, 304 Muscat Oman

Advay P of No: 325.A. Alagar Kovil Road, Melur Madurai Tamil Nadu India

Tharshith Sibaash Muthuraman of 1-1-111, Sree Darsha, Eathancaud, North Thamaraikulam post kanyakumari district Tamil Nadu 629704 India

Darsh Sijaria of Vila no. 89 Ansal Basera Colony, Near Mahila Polytechnic College, Gwalior Road Jhansi Uttar Pradesh 284003 India

Jackulin T of Assistant Professor, Dept of Computer Science and Engineering, Panimalar Engineering College Chennai Tamil Nadu India

Title of invention:

Artificial Intelligence-based multipurpose cradle system

Name of inventor(s):

Raaza, Arun; A. K., Dhayaa Ranjjan; Anand, Vedanth; Jacob, Angela Mariam; Alsouli, Dorar Khamis Salim; JayaKumar, Jesson Paul; Ezzeddine, Jamal Wassim; P., Advay; Muthuraman, Tharshith Sibaash; Sijaria, Darsh and T., Jackulin

Term of Patent:

Eight years from 21 July 2021

NOTE: This Innovation Patent cannot be enforced unless and until it has been examined by the Commissioner of Patents and a Certificate of Examination has been issued. See sections 120(1A) and 129A of the Patents Act 1990, set out on the reverse of this document.

COMMONWEALTH OF AUSTRALIA AUSTRALIA PATENT OFFICE

Dated this 23rd day of March 2022

Commissioner of Patents

PATENTS ACT 1990

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Office of the Controller General of Patents, Designs & Trade Marks
Department for Promotion of Industry and Internal Trade
Ministry of Commerce & Industry,
Government of India

(http://ipindia.nic.in/index.htm)

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Application Details	
APPLICATION NUMBER	202441080869
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	24/10/2024
APPLICANT NAME	1 . Dr. Ramu K, Professor, Dept. of CSE 2 . Titus Ashish, Assistant Professor, Dept. of CSE 3 . Deepika Bairagi, Assistant Professor 4 . Dr.K.Anuradha, Professor 5 . Sandra Vinay Kumar, Ph D Schalor 6 . Sagar D. Dhawale, Assistant Professor, Dept. of E&TC 7 . Dr.T.Jaya, Associate Professor, Dept. of ECE 8 . Kandhibanda Kalpana, Assistant Professor 9 . S. Bavankumar, Assistant Professor, Department of CSE
TITLE OF INVENTION	HYBRID CONVOLUTIONAL NEURAL NETWORKS FOR DETECTING LUNG CANCER FROM CT IMAGES AND APPLYING SUPPORT VECTOR MACHINE CLASSIFICATION
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	ipoindiaoffice@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	

PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	01/11/2024

Application Status	
APPLICATION STATUS	**Awaiting Request for Examination**

View Documents

➡ Filed ➡ Published ➡ RQ Filed ➡ Under Examination ➡ Disposed

In case of any discrepancy in status, kindly contact ipo-helpdesk@nic.in

FORM 2

THE PATENTS ACT, 1970

(39 OF 1970)

AND

THE PATENT RULES, 2003

COMPLETE SPECIFICATION

(See section 10 and rule 13)

Title of Invention:

"ENHANCING E-LEARNING WITH ADVANCED MACHINE LEARNING TECHNIQUES TO OPTIMIZE STUDENT PERFORMANCE IN ENGLISH AS A FOREIGN LANGUAGE (EFL)"

NAME OF APPLICANT	NATIONALITY	ADDRESS
DR. P. SHANMUGAM	INDIAN	ASSISTANT PROFESSOR, DEPARTMENT OF SCIENCE AND HUMANITIES, DHANALAKSHMI SRINIVASAN COLLEGE OF ENGINEERING AND TECHNOLOGY, COIMBATORE- 641105
DR. SUDHA SINGH	INDIAN	ASSISTANT PROFESSOR, DEPARTMENT OF ENGLISH AND HUMANITIES, ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY AND SCIENCES, SANGHIVALASA-BHEEMUNIPATNAM,531162
DR. A. GEETHA	INDIAN	ASSOCIATE PROFESSOR, DEPARTMENT OF ENGLISH, SRI SAIRAM ENGINEERING COLLEGE, CHENNAI- 600044
DR. P. PRIYADHARSHINI	INDIAN	ASSISTANT PROFESSOR, DEPARTMENT OF ENGLISH, ST. JOSEPH'S COLLEGE OF ENGINEERING, OMR, CHENNAI- 119
DR. VAIBHAO B. PIMPALE	INDIAN	ASSISTANT PROFESSOR AND HEAD OF THE ENGLISH DEPARTMENT AT DR. R. G. BHOYAR ARTS, COMMERCE & SCIENCE COLLEGE, SELOO.
V. PAVITHRA	INDIAN	ASSISTANT PROFESSOR, DEPARTMENT OF ENGLISH, JAMAL MOHAMED COLLEGE, NO 7 RACE COURSE ROAD, KHAJA NAGAR, TRICHY- 20
DR. VANDANA SINGH	INDIAN	ASSOCIATE PROFESSOR, HUMANITIES, LAKSHMI NARAIN

		COLLEGE OF TECHNOLOGY EXCELLENCE BHOPAL, MADHYA PRADESH- 462022
R. ANAND	INDIAN	ASSISTANT PROFESSOR, AERONAUTICAL ENGINEERING, NEHRU INSTITUTE OF TECHNOLOGY, COIMBATORE- 641105
RAHUL MITTAL	INDIAN	ASSISTANT PROFESSOR, SCHOOL OF MEDIA STUDIES, JAIPUR NATIONAL UNIVERSITY JAIPUR- 302017
DR ASHOK KUMAR KATTA	INDIAN	PROFESSOR OF MANAGEMENT STUDIES, DEPARTMENT OF BBA, VELS INSTITUTE OF SCIENCE, TECHNOLOGY, AND ADVANCED STUDIES (VISTAS) CHENNAI- 600117
DR. DHANUSHA. C	INDIAN	ASSISTANT PROFESSOR, DEPARTMENT OF SOFTWARE SYSTEM AND COMPUTER SCIENCE [PG] , KG COLLEGE OF ARTS AND SCIENCE, COIMBATORE- 641035
THIYAGARAJAN T	INDIAN	ASSISTANT PROFESSOR, DEPARTMENT OF COMPUTER APPLICATIONS, NEHRU INSTITUTE OF INFORMATION TECHNOLOGY AND MANAGEMENT, COIMBATORE- 641105

The following specification describes the invention and the manner in which it is to be performed.

FIELD OF INVENTION

The present invention relates to the field of designing & implementing a framework of Machine Learning approach to analyze the optimization of Student Performance in English as a Foreign Language (EFL). The proposed invention focuses on understanding the functions of Enhanced E-Learning using algorithms of Machine Learning Approach.

BACKGROUND OF INVENTION

[0001] Background description includes information that may be useful in understanding the present invention. It is not an admission that any of the information provided herein is prior art or relevant to the presently claimed invention, or that any publication specifically or implicitly referenced is prior art.

[0002] Machine learning (ML) is a type of artificial intelligence (AI) that allows computers to learn and improve from experience without being explicitly programmed. Machine learning (ML) uses algorithms to analyze large amounts of data, identify patterns, and make predictions. The more data a machine learning system is exposed to, the better it gets at making predictions.

[0003] A number of different types of systems to analyse the efficiency of students learning English as foreign language that are known in the prior art. For example, the following patents are provided for their supportive teachings and are all incorporated by reference.

[0004] US20140065596A1: A computer-implemented method of generating learning exercises is provided. The method comprises receiving text, processing the text using linguistic parsers to generate linguistic characteristics of the text, storing the linguistic characteristics in a data file, retrieving user information comprising a user knowledge level and user goals, using the stored linguistic characteristics and the user information to generate the learning exercises based on a parametrical model, receiving responses to the learning exercises from the user, and updating the user information based on the responses to the learning exercises. The linguistic characteristics comprise words of the text and relationships between the words.

[0005] Advanced machine learning (ML) is a data-based approach to improving the performance of systems, using techniques and tools to solve a variety of ML problems. Advanced ML uses data to improve performance, whereas traditional ML uses experience. Advanced ML courses cover the theoretical foundations of modern ML, as well as advanced methods and frameworks. Advanced ML courses can help students develop skills for performing research to advance the state of knowledge in machine learning. The proposed invention focuses on analyzing the Student Performance in English as a Foreign Language (EFL) through algorithms of Machine Learning.

[0006] Above information is presented as background information only

to assist with an understanding of the present disclosure. No determination has been made, no assertion is made, and as to whether any of the above might be applicable as prior art with regard to the present invention.

[0007] In the view of the foregoing disadvantages inherent in the known types of systems to analyse the efficiency of students learning English as foreign language now present in the prior art, the present invention provides an improved system. As such, the general purpose of the present invention, which will be described subsequently in greater detail, is to provide a new and improved English learning techniques integrated with machine learning algorithms for optimizing the efficiency of students studying English as foreign language that has all the advantages of the prior art and none of the disadvantages.

SUMMARY OF INVENTION

[0008] In the view of the foregoing disadvantages inherent in the known types of systems to analyse the efficiency of students learning English as foreign language now present in the prior art, the present invention provides an improved one. As such, the general purpose of the present invention, which will be described subsequently in greater detail, is to provide a new and improved English learning techniques integrated with machine learning algorithms for optimizing the efficiency of students studying English as foreign language which has all the advantages of the

prior art and none of the disadvantages.

[0009] The Main objective of the proposed invention is to design & implement a framework of Machine Learning techniques for analyzing the parameters of Student Performance in English as a Foreign Language (EFL). Enhancing E-Learning with Advanced Machine Learning Techniques is analyzed.

[0010] Yet another important aspect of the proposed invention is to design & implement a framework of Machine Learning techniques that will consider on understanding the functions of Enhanced E-Learning. The Student Performance in English as a Foreign Language is analyzed by predictive unit. The results of prediction are displayed on the display unit.

[0011] In this respect, before explaining at least one embodiment of the invention in detail, it is to be understood that the invention is not limited in its application to the details of construction and to the arrangements of the components set forth in the following description or illustrated in the various ways. Also, it is to be understood that the phraseology and terminology employed herein are for the purpose of description and should not be regarded as limiting.

[0012] These together with other objects of the invention, along with the various features of novelty which characterize the invention, are pointed out with particularity in the disclosure. For a better understanding of the

invention, its operating advantages and the specific objects attained by its uses, reference should be had to the accompanying drawings and descriptive matter in which there are illustrated preferred embodiments of the invention.

BRIEF DESCRIPTION OF DRAWINGS

[0013] The invention will be better understood and objects other than those set forth above will become apparent when consideration is given to the following detailed description thereof. Such description makes reference to the annexed drawings wherein:

Figure 1 illustrates the schematic view of Enhancing E-Learning with Advanced Machine Learning Techniques to Optimize Student Performance in English as a Foreign Language (EFL), according to the embodiment herein.

DETAILED DESCRIPTION OF INVENTION

[0014] In the following detailed description, reference is made to the accompanying drawings which form a part hereof, and in which is shown by way of illustration specific embodiments in which the invention may be practiced. These embodiments are described in sufficient detail to enable those skilled in the art to practice the invention, and it is to be understood that the embodiments may be combined, or that other embodiments may be utilized and that structural and logical changes may be made without departing from the spirit and scope of the

present invention. The following detailed description is, therefore, not to be taken in a limiting sense, and the scope of the present invention is defined by the appended claims and their equivalents.

[0015] While the present invention is described herein by way of example using several embodiments and illustrative drawings, those skilled in the art will recognize that the invention is neither intended to be limited to the embodiments of drawing or drawings described, nor intended to represent the scale of the various components. Further, some components that may form a part of the invention may not be illustrated in certain figures, for ease of illustration, and such omissions do not limit the embodiments outlined in any way. It should be understood that the drawings and detailed description thereto are not intended to limit the invention to the particular form disclosed, but on the contrary, the invention covers all modification/s, equivalents and alternatives falling within the spirit and scope of the present invention as defined by the appended claims. The headings are used for organizational purposes only and are not meant to limit the scope of the description or the claims. As used throughout this description, the word "may" be used in a permissive sense (i.e., meaning having the potential to), rather than the mandatory sense (i.e., meaning must). Further, the words "a" or "a" mean "at least one" and the word "plurality" means one or more, unless otherwise mentioned. Furthermore, the terminology and phraseology used herein is

solely used for descriptive purposes and should not be construed as limiting in scope. Language such as "including," "comprising," "having," "containing," or "involving," and variations thereof, is intended to be broad and encompass the subject matter listed thereafter, equivalents, and any additional subject matter not recited, and is not intended to exclude any other additives, components, integers or steps. Likewise, the term "comprising" is considered synonymous with the terms "including" or "containing" for applicable legal purposes. Any discussion of documents, acts, materials, devices, articles and the like are included in the specification solely for the purpose of providing a context for the present invention.

[0016] In this disclosure, whenever an element or a group of elements is preceded with the transitional phrase "comprising", it is understood that we also contemplate the same element or group of elements with transitional phrases "consisting essentially of, "consisting", "selected from the group consisting of', "including", or "is" preceding the recitation of the element or group of elements and vice versa.

[0017] E-learning, or online learning, is the use of digital technologies to deliver learning and training. It can include computer-based learning, web-based learning, and mobile learning. Learners can access educational content at any time and from any location. E-learning can include interactive elements like videos, texts, audios, and images. E-

learning can be used to train large groups of people in different locations.

[0018] To optimize student performance in English as a Foreign Language (EFL), focus on creating an immersive learning environment, integrating relevant content, encouraging active participation through varied speaking activities, building vocabulary strategically, providing regular feedback, and tailoring instruction to individual needs while fostering a positive and supportive classroom atmosphere. The proposed invention focuses on implementing the algorithms of Machine Learning Approach for studying the functions of Enhanced E-Learning.

[0019] Reference will now be made in detail to the exemplary embodiment of the present disclosure. Before describing the detailed embodiments that are in accordance with the present disclosure, it should be observed that the embodiment resides primarily in combinations arrangement of the system according to an embodiment herein and as exemplified in FIG. 1

[0020] Figure 1 illustrates the schematic view of Enhancing E-Learning with Advanced Machine Learning Techniques to Optimize Student Performance in English as a Foreign Language 100. The proposed invention 100 includes a student 101 who are studying English as a foreign language. The analysis unit 102 will stead the data of students 101 and sends it to the machine learning unit 103. The predictive unit 104 will predict the factors that can be improved to make the language

easy for students 101. The results of predictive unit 104 will be displayed on display unit 105. The optimization unit 106 will optimize the outcomes.

[0021] In the following description, for the purpose of explanation, numerous specific details are set forth in order to provide a thorough understanding of the arrangement of the system according to an embodiment herein. It will be apparent, however, to one skilled in the art that the present embodiment can be practiced without these specific details. In other instances, structures are shown in block diagram form only in order to avoid obscuring the present invention.

Gowthami S

Patent Agent

INPA 3797

On behalf of Applicant

Digitally Signed

Date: 25/10/2024

WE CLAIM

1. Enhancing E-Learning with Advanced Machine Learning Techniques to Optimize Student Performance in English as a Foreign Language (EFL), comprises of:

   Analysis unit;

   Display unit;

   Predictive unit and

   Optimization unit.
2. Enhancing E-Learning with Advanced Machine Learning Techniques to Optimize Student Performance in English as a Foreign Language (EFL), according to claim 1, includes an analysis unit, wherein the analysis unit will stead the data of students and sends it to the machine learning unit.
3. Enhancing E-Learning with Advanced Machine Learning Techniques to Optimize Student Performance in English as a Foreign Language (EFL), according to claim 1, includes a display unit, wherein the display unit will display the results of predictive unit.
4. Enhancing E-Learning with Advanced Machine Learning Techniques to Optimize Student Performance in English as a Foreign Language (EFL), according to claim 1, includes a predictive unit, wherein the predictive unit will predict the factors that can be improved to make the language easy for students.

5. Enhancing E-Learning with Advanced Machine Learning Techniques to Optimize Student Performance in English as a Foreign Language (EFL), according to claim 1, includes an optimization unit, wherein the optimization unit will optimize the outcomes.

Gowthami S

Patent Agent

INPA 3797

On behalf of Applicant

Digitally Signed

Date: 25/10/2024

ABSTRACT

ENHANCING E-LEARNING WITH ADVANCED MACHINE LEARNING TECHNIQUES TO OPTIMIZE STUDENT PERFORMANCE IN ENGLISH AS A FOREIGN LANGUAGE (EFL)

Enhancing E-Learning with Advanced Machine Learning Techniques to Optimize Student Performance in English as a Foreign Language (EFL) is the proposed invention. The proposed invention focuses on understanding the functions of Enhanced E-Learning. The invention focuses on analyzing the parameters of Student Performance as a Foreign Language in English using algorithms of Machine Learning Approach.

Gowthami S

Patent Agent

INPA 3797

On behalf of Applicant

Digitally Signed

Date: 25/10/2024

APPLICANT:
DR. P.SHANMUGAM
DR.SUDHA SINGH
DR. A. GEETHA
DR. P. PRIYADHARSHINI
DR. VAIBHAO B. PIMPALE
V. PAVITHRA
DR. VANDANA SINGH
R.ANAND
RAHUL MITTAL
DR ASHOK KUMAR KATTA
DR. DHANUSHA.C
THIYAGARAJAN T

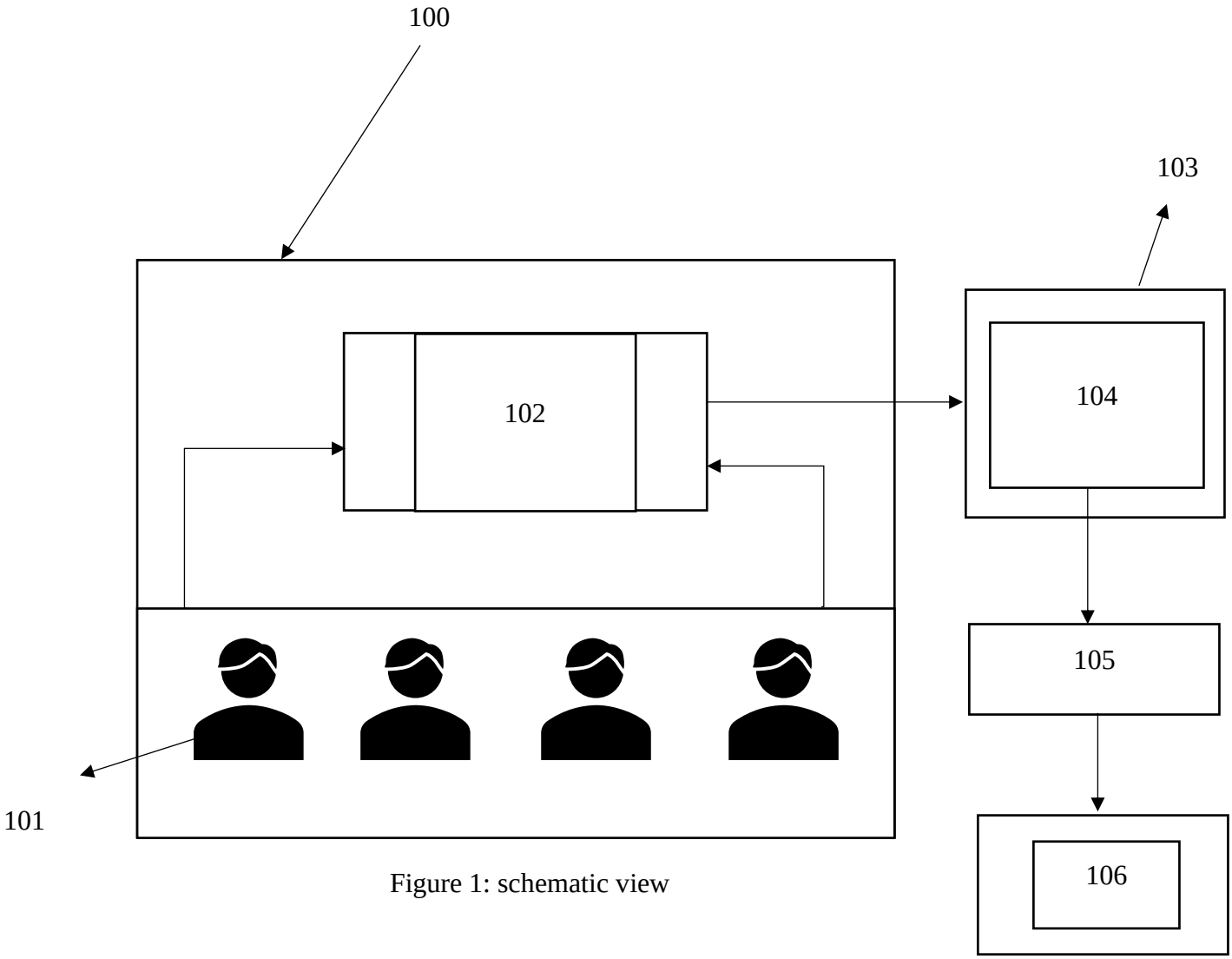

Figure 1: schematic view

Gowthami S
Patent Agent
INPA 3797
On behalf of Applicant
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Date: 25/10/2024

FORM 1
THE PATENTS ACT, 1970
(39 of 1970)
&
THE PATENTS RULES, 2003
APPLICATION FOR GRANT OF PATENT
[See sections 7,54 & 135 and rule 20(1)]

(FOR OFFICE USE ONLY)

Application No.: .....
Filing Date: .....
Amount of Fee Paid: .....
CBR No.: .....
Signature: .....

1. APPLICANT(S):

Sr.No.	Name	Nationality	Address	Country	State	Distict	City
1	Dr. P.Shanmugam	India	Assistant Professor, Department of Science and Humanities, Dhanalakshmi Srinivasan College of Engineering and Technology, Coimbatore- 641105	India	Tamil Nadu	Coimbatore	Coimbatore
2	Dr.Sudha Singh	India	Assistant Professor, Department of English and Humanities, Anil Neerukonda Institute of Technology and Sciences, Sanghivalasa-Bheemunipatnam,531162	India	Andhra Pradesh	Visakhapatnam	Bheemunipatnam
3	Dr. A. Geetha	India	Associate Professor, Department of English, Sri Sairam Engineering College, Chennai-600044	India	Tamil Nadu	Kanchipuram	Chennai
4	Dr. P. Priyadharshini	India	Assistant Professor, Department of English, St.Joseph's College of Engineering, OMR, Chennai- 119	India	Tamil Nadu	Chennai	Chennai
5	Dr. Vaibhao B. Pimpale	India	Assistant Professor and Head of the English Department at Dr. R. G. Bhoyar Arts, Commerce & Science College, Seloo.	India	Maharashtra	Wardha	Seloo
6	V. Pavithra	India	Assistant Professor, Department of English, Jamal Mohamed College, No 7 Race Course Road, Khaja Nagar, Trichy- 20	India	Tamil Nadu	Tiruchirappalli	Trichy
7	Dr. Vandana Singh	India	Associate Professor, Humanities, Lakshmi Narain College of Technology Excellence Bhopal, Madhya Pradesh- 462022	India	Madhya Pradesh	Bhopal	Bhopal
8	R.Anand	India	Assistant Professor, Aeronautical Engineering, Nehru	India	Tamil Nadu	Coimbatore	Coimbatore

			Institute of Technology, Coimbatore- 641105				
9	Rahul Mittal	India	Assistant Professor, School of Media Studies, Jaipur National University Jaipur-302017	India	Rajasthan	Jaipur	Jaipur
10	Dr Ashok Kumar Katta	India	Professor of Management Studies, Department of BBA, VELS Institute of Science, Technology, and Advanced Studies (VISTAS) Chennai-600117	India	Tamil Nadu	Chennai	Chennai
11	Dr. Dhanusha.C	India	Assistant Professor, Department of Software System and Computer Science [PG] , KG College of Arts and Science, Coimbatore-641035	India	Tamil Nadu	Coimbatore	Coimbatore
12	Thiyagarajan T	India	Assistant Professor, Department of Computer Applications, Nehru Institute of Information Technology and Management, Coimbatore- 641105	India	Tamil Nadu	Coimbatore	Coimbatore

2. INVENTOR(S):

Sr.No.	Name	Nationality	Address	Country	State	Distict	City
1	Dr. P.Shanmugam	India	Assistant Professor, Department of Science and Humanities, Dhanalakshmi Srinivasan College of Engineering and Technology, Coimbatore- 641105	India	Tamil Nadu	Coimbatore	Coimbatore
2	Dr.Sudha Singh	India	Assistant Professor, Department of English and Humanities, Anil Neerukonda Institute of Technology and Sciences, Sanghivalasa-Bheemunipatnam,531162	India	Andhra Pradesh	Visakhapatnam	Bheemunipatnam
3	Dr. A. Geetha	India	Associate Professor, Department of English, Sri Sairam Engineering College, Chennai-600044	India	Tamil Nadu	Kanchipuram	Chennai
4	Dr. P. Priyadharshini	India	Assistant Professor, Department of English, St.Joseph's College of Engineering, OMR, Chennai- 119	India	Tamil Nadu	Chennai	Chennai

5	Dr. Vaibhao B. Pimpale	India	Assistant Professor and Head of the English Department at Dr. R. G. Bhoyar Arts, Commerce & Science College, Seloo.	India	Maharashtra	Wardha	Seloo
6	V. Pavithra	India	Assistant Professor, Department of English, Jamal Mohamed College, No 7 Race Course Road, Khaja Nagar, Trichy- 20	India	Tamil Nadu	Tiruchirappalli	Trichy
7	Dr. Vandana Singh	India	Associate Professor, Humanities, Lakshmi Narain College of Technology Excellence Bhopal, Madhya Pradesh- 462022	India	Madhya Pradesh	Bhopal	Bhopal
8	R.Anand	India	Assistant Professor, Aeronautical Engineering, Nehru Institute of Technology, Coimbatore- 641105	India	Tamil Nadu	Coimbatore	Coimbatore
9	Rahul Mittal	India	Assistant Professor, School of Media Studies, Jaipur National University Jaipur-302017	India	Rajasthan	Jaipur	Jaipur
10	Dr Ashok Kumar Katta	India	Professor of Management Studies, Department of BBA, VELS Institute of Science, Technology, and Advanced Studies (VISTAS) Chennai-600117	India	Tamil Nadu	Chennai	Chennai
11	Dr. Dhanusha.C	India	Assistant Professor, Department of Software System and Computer Science [PG] , KG College of Arts and Science, Coimbatore-641035	India	Tamil Nadu	Coimbatore	Coimbatore
12	Thiyagarajan T	India	Assistant Professor, Department of Computer Applications, Nehru Institute of Information Technology and Management, Coimbatore- 641105	India	Tamil Nadu	Coimbatore	Coimbatore

3. TITLE OF THE INVENTION: ENHANCING E-LEARNING WITH ADVANCED MACHINE LEARNING TECHNIQUES TO OPTIMIZE STUDENT PERFORMANCE IN ENGLISH AS A FOREIGN LANGUAGE (EFL)

4. ADDRESS FOR CORRESPONDENCE OF APPLICANT / AUTHORISED PATENT AGENT IN INDIA:

No 325, 17th main, B block, 3rd stage Vijayanagar, Mysuru-570030

Telephone No.:
Fax No.:
Mobile No: 9538377433
E-mail: sgowthami12@gmail.com

5. PRIORITY PARTICULARS OF THE APPLICATION(S) FILED IN CONVENTION COUNTRY:

Sr.No.	Country	Application Number	Filing Date	Name of the Applicant	Tilte of the Invention

6. PARTICULARS FOR FILING PATENT COOPERATION TREATY (PCT) NATIONAL PHASE APPLICATION:

International Application Number	International Filing Date as Allotted by the Receiving Office
PCT//	

7. PARTICULARS FOR FILING DIVISIONAL APPLICATION

Original (first) Application Number	Date of Filing of Original (first) Application

8. PARTICULARS FOR FILING PATENT OF ADDITION:

Main Application / Patent Number:	Date of Filing of Main Application

9. DECLARATIONS:

(i) Declaration by the inventor(s)

I/We ,Dr. P.Shanmugam,Dr.Sudha Singh,Dr. A. Geetha,Dr. P. Priyadharshini,Dr. Vaibhao B. Pimpale,V. Pavithra,Dr. Vandana Singh,R.Anand,Rahul Mittal,Dr Ashok Kumar Katta,Dr. Dhanusha.C,Thiyagarajan T, is/are the true & first inventor(s) for this invention and declare that the applicant(s) herein is/are my/our assignee or legal representative.

(a) Date: -----

(b) Signature(s) of the inventor(s): .....

(c) Name(s): Dr. P.Shanmugam,Dr.Sudha Singh,Dr. A. Geetha,Dr. P. Priyadharshini,Dr. Vaibhao B. Pimpale,V. Pavithra,Dr. Vandana Singh,R.Anand,Rahul Mittal,Dr Ashok Kumar Katta,Dr. Dhanusha.C,Thiyagarajan T

(ii) Declaration by the applicant(s) in the convention country

I/We, the applicant(s) in the convention country declare that the applicant(s) herein is/are my/our assignee or legal representative.

(a) Date: -----

(b) Signature(s) : .....

(c) Name(s) of the singnatory: Dr. P.Shanmugam,Dr.Sudha Singh,Dr. A. Geetha,Dr. P. Priyadharshini,Dr. Vaibhao B. Pimpale,V. Pavithra,Dr. Vandana Singh,R.Anand,Rahul Mittal,Dr Ashok Kumar Katta,Dr. Dhanusha.C,Thiyagarajan T

(iii) Declaration by the applicant(s)

- **The Complete specification relating to the invention is filed with this application.**
- **I am/We are, in the possession of the above mentioned invention.**
- **There is no lawful ground of objection to the grant of the Patent to me/us.**

10. FOLLOWING ARE THE ATTACHMENTS WITH THE APPLICATION:

Sr.	Document Description	FileName

I/We hereby declare that to the best of my/our knowledge, information and belief the fact and matters stated hering are correct and I/We request that a patent may be granted to me/us for the said invention.

Dated this(Final Payment Date): ----------

Signature: .....

Name: Gowthami S

To The Controller of Patents

The Patent office at CHENNAI

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FORM 9

THE PATENT ACT, 1970
(39 of 1970)
&
THE PATENTS RULES, 2003

REQUEST FOR PUBLICATION

[See section 11A (2) rule 24A]

I/We **Dr. P.Shanmugam,Dr.Sudha Singh,Dr. A. Geetha,Dr. P. Priyadharshini,Dr. Vaibhao B. Pimpale,V. Pavithra,Dr. Vandana Singh,R.Anand,Rahul Mittal,Dr Ashok Kumar Katta,Dr. Dhanusha.C,Thiyagarajan T** hereby request for early publication of my/our [Patent Application No.] TEMP/E-1/95093/2024-CHE

Dated **25/10/2024 00:00:00** under section 11A(2) of the Act.

Dated this(Final Payment Date):----------
Signature
Name of the signatory

To,
The Controller of Patents,
The Patent Office,
At Chennai

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FORM 9

THE PATENT ACT, 1970
(39 of 1970)
&
THE PATENTS RULES, 2003

REQUEST FOR PUBLICATION

[See section 11A (2) rule 24A]

I/We **Dr. P.Shanmugam,Dr.Sudha Singh,Dr. A. Geetha,Dr. P. Priyadharshini,Dr. Vaibhao B. Pimpale,V. Pavithra,Dr. Vandana Singh,R.Anand,Rahul Mittal,Dr Ashok Kumar Katta,Dr. Dhanusha.C,Thiyagarajan T** hereby request for early publication of my/our [Patent Application No.] TEMP/E-1/95093/2024-CHE

Dated **25/10/2024 00:00:00** under section 11A(2) of the Act.

Dated this(Final Payment Date):----------
Signature
Name of the signatory

To,
The Controller of Patents,
The Patent Office,
At Chennai

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Department for Promotion of Industry and Internal Trade
Ministry of Commerce & Industry,
Government of India

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Application Details	
APPLICATION NUMBER	202441084169
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	04/11/2024
APPLICANT NAME	1 . Dr. RVS Praveen 2 . Anoop V 3 . B Anusha Rani 4 . S V Juno Bella Gracia 5 . Sherin K 6 . M.Ruba 7 . N Deshai 8 . S.Varadharajan 9 . Hoyala Jataboina 10 . Dr Shivi Sharma 11 . Dr D D Sharma
TITLE OF INVENTION	Machine Learning-Based System for Automated Diagnosis of Skin Cancer Using Dermoscopic Images
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	senanipindia@gmail.com
ADDITIONAL-EMAIL (As Per Record)	info@thelemainfotech.net
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	15/11/2024

Application Status

APPLICATION STATUS	Awaiting Request for Examination

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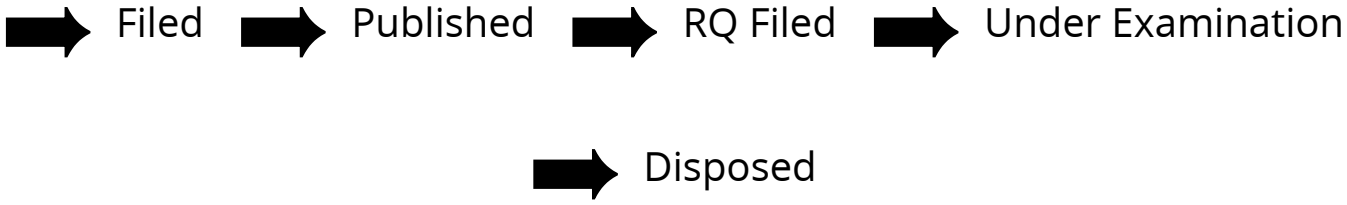

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FORM 2

THE PATENTS ACT, 1970

(39 OF 1970)

AND

THE PATENT RULES, 2003

COMPLETE SPECIFICATION

(See section 10 and rule 13)

Title of Invention:

"MACHINE LEARNING APPROACHES FOR EVALUATING TEACHER PERFORMANCE IN HIGHER EDUCATION INSTITUTIONS"

NAME OF APPLICANT	NATIONALITY	ADDRESS
PALLAVI ENGINEERING COLLEGE	INDIA	PALLAVI ENGINEERING COLLEGE, ABDHULLAPURMET MANDAL, RANGAREDDY, HYDERABAD-501505
DHANUNJAYA RAO KODALI	INDIAN	ASSOCIATE PROFESSOR, HOD-CSE, PALLAVI ENGINEERING COLLEGE, ABDHULLAPURMET MANDAL, RANGAREDDY HYDERABAD- 501505
VISHAL RAJENDRA NIMBOLKAR	INDIAN	ASST.PROFESSOR, DEPARTMENT OF MBA SANJIVANI COLLEGE OF ENGINEERING, KOPARGAON- 423601
RAJAKUMARAN V	INDIAN	DIRECTOR, MATHEMATICS, ACHARIYA GROUP OF INSTITUTIONS
RAJABHUVANESWARI A	INDIAN	PROFESSOR OF CHEMISTRY, DEPARTMENT OF SCIENCE AND HUMANITIES, KARPAGA VINAYAGA COLLEGE OF ENGINEERING AND TECHNOLOGY, MADHURANTHAGAM,
DR JYOTI PRASAD PATRA	INDIAN	PRINCIPAL, NIGAM INSTITUTE OF ENGINEERING AND TECHNOLOGY, NIET UG PG DIPLOMA ENGINEERING, ODISHA, INDIA-754006
RAMA DEVI C	INDIAN	ASSISTANT PROFESSOR, DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING, ST.JOSEPH'S COLLEGE OF ENGINEERING, CHENNAI- 600119.
RAM NIVAS D	INDIAN	ASSISTANT PROFESSOR, DEPARTMENT OF ECE, KPR INSTITUTE OF ENGINEERING AND TECHNOLOGY, COIMBATORE-

		641407
SUBHAM PANKAJ SAMANTARAY	INDIAN	ASSISTANT PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, NIGAM INSTITUTE OF ENGINEERING AND TECHNOLOGY, ODISHA, INDIA-754006
VISHAL KUMAR SHARMA	INDIAN	ASSISTANT PROFESSOR, DEPARTMENT OF MATHEMATICS, G H RAISONI UNIVERSITY, PANDHURNA- 480337
DR ASHOK KUMAR KATTA	INDIAN	PROFESSOR, DEPARTMENT OF BBA, VELS INSTITUTE OF SCIENCE, TECHNOLOGY AND ADVANCED STUDIES (VISTAS), CHENNAI- 600117
PURINI KHYATHI	INDIAN	ASSISTANT PROFESSOR, DEPARTMENT OF AIML, QIS COLLEGE OF ENGINEERING AND TECHNOLOGY, ONGOLE, 523272

The following specification describes the invention and the manner in which it is to be performed.

FIELD OF INVENTION

The present invention relates to the field of designing & implementing a framework of Machine Learning Approach to evaluate the Teacher Performance in Higher Education Institutions. The proposed invention focuses on understanding the functions of Evaluating Teacher Performance in Higher Education using algorithms of Machine Learning Approach.

BACKGROUND OF INVENTION

[0001] Background description includes information that may be useful in understanding the present invention. It is not an admission that any of the information provided herein is prior art or relevant to the presently claimed invention, or that any publication specifically or implicitly referenced is prior art.

[0002] Machine learning (ML) is a type of artificial intelligence (AI) that allows computers to learn and improve from experience without being explicitly programmed. ML uses algorithms to analyze large amounts of data, identify patterns, and make predictions. The more data a machine learning system is exposed to, the more accurate it becomes. ML is useful in situations where data is constantly changing.

[0003] A number of different types of teacher performance analysis systems that are known in the prior art. For example, the following patents are provided for their supportive teachings and are all incorporated by reference.

[0004] Instructor Performance Evaluation Through Machine Learning Algorithms: Development in the data mining approaches promotes the researches over the classification of features in the provided dataset. The applications like student performance evaluation plays important role in measuring efficiency of the instructors in the educational institution. Student evaluation feedback database, analyze the performance of the instructors based on the course Id, attendance, difficulty and repetition of selection course by the student. The student evaluation dataset collect from UCI machine learning repository. The accuracy of the feedback provided by the student's measure with deep learning algorithm. Several Instances record to improve the efficiency of the performance evaluation system. The implementation of neural network along with linear regression model, multiple regression model, feed forward network and Association rules apply for student evaluation database. The performance plots were used to compare the efficiency of the deep learning algorithm over the applied data set.

[0005] Education is a process of acquiring knowledge, skills, values, and understanding through teaching, training, and research. It can also refer to the knowledge and development that results from this process. Education helps people develop skills for daily life, learn social norms, and develop judgment and reasoning. Education is a powerful tool for reducing poverty and improving health, gender equality, peace, and

stability. The proposed invention focuses on analyzing the Teacher Performance in Higher Education Institutions through algorithms of Machine Learning Approach.

[0006] Above information is presented as background information only to assist with an understanding of the present disclosure. No determination has been made, no assertion is made, and as to whether any of the above might be applicable as prior art with regard to the present invention.

[0007] In the view of the foregoing disadvantages inherent in the known types of teacher performance analysis systems now present in the prior art, the present invention provides an improved system. As such, the general purpose of the present invention, which will be described subsequently in greater detail, is to provide a new and improved Machine learning based approach for predicting the performance of higher education teachers that has all the advantages of the prior art and none of the disadvantages.

SUMMARY OF INVENTION

[0008] In the view of the foregoing disadvantages inherent in the known types of teacher performance analysis systems now present in the prior art, the present invention provides an improved one. As such, the general purpose of the present invention, which will be described subsequently in greater detail, is to provide a new and improved Machine learning based

approach for predicting the performance of higher education teachers which has all the advantages of the prior art and none of the disadvantages.

[0009] The Main objective of the proposed invention is to design & implement a framework of Machine Learning techniques for analyzing the parameters of Teacher Performance in Higher Education Institutions. Machine Learning Approaches for Evaluating Teacher Performance is analyzed.

[0010] Yet another important aspect of the proposed invention is to design & implement a framework of Machine Learning techniques that will consider on understanding the functions of Evaluating Teacher Performance in Higher Education. Machine Learning Approaches for Evaluating Teacher Performance is analyzed by predictive unit. The results of prediction are displayed on the display unit.

[0011] In this respect, before explaining at least one embodiment of the invention in detail, it is to be understood that the invention is not limited in its application to the details of construction and to the arrangements of the components set forth in the following description or illustrated in the various ways. Also, it is to be understood that the phraseology and terminology employed herein are for the purpose of description and should not be regarded as limiting.

[0012] These together with other objects of the invention, along with the

various features of novelty which characterize the invention, are pointed out with particularity in the disclosure. For a better understanding of the invention, its operating advantages and the specific objects attained by its uses, reference should be had to the accompanying drawings and descriptive matter in which there are illustrated preferred embodiments of the invention.

BRIEF DESCRIPTION OF DRAWINGS

[0013] The invention will be better understood and objects other than those set forth above will become apparent when consideration is given to the following detailed description thereof. Such description makes reference to the annexed drawings wherein:

Figure 1 illustrates the schematic view of Machine Learning Approaches for Evaluating Teacher Performance in Higher Education Institutions, according to the embodiment herein.

DETAILED DESCRIPTION OF INVENTION

[0014] In the following detailed description, reference is made to the accompanying drawings which form a part hereof, and in which is shown by way of illustration specific embodiments in which the invention may be practiced. These embodiments are described in sufficient detail to enable those skilled in the art to practice the invention, and it is to be understood that the embodiments may be combined, or that other embodiments may be utilized and that structural and logical

changes may be made without departing from the spirit and scope of the present invention. The following detailed description is, therefore, not to be taken in a limiting sense, and the scope of the present invention is defined by the appended claims and their equivalents.

[0015] While the present invention is described herein by way of example using several embodiments and illustrative drawings, those skilled in the art will recognize that the invention is neither intended to be limited to the embodiments of drawing or drawings described, nor intended to represent the scale of the various components. Further, some components that may form a part of the invention may not be illustrated in certain figures, for ease of illustration, and such omissions do not limit the embodiments outlined in any way. It should be understood that the drawings and detailed description thereto are not intended to limit the invention to the particular form disclosed, but on the contrary, the invention covers all modification/s, equivalents and alternatives falling within the spirit and scope of the present invention as defined by the appended claims. The headings are used for organizational purposes only and are not meant to limit the scope of the description or the claims. As used throughout this description, the word "may" be used in a permissive sense (i.e., meaning having the potential to), rather than the mandatory sense (i.e., meaning must). Further, the words "a" or "a" mean "at least one" and the word "plurality" means one or more, unless otherwise

mentioned. Furthermore, the terminology and phraseology used herein is solely used for descriptive purposes and should not be construed as limiting in scope. Language such as "including," "comprising," "having," "containing," or "involving," and variations thereof, is intended to be broad and encompass the subject matter listed thereafter, equivalents, and any additional subject matter not recited, and is not intended to exclude any other additives, components, integers or steps. Likewise, the term "comprising" is considered synonymous with the terms "including" or "containing" for applicable legal purposes. Any discussion of documents, acts, materials, devices, articles and the like are included in the specification solely for the purpose of providing a context for the present invention.

[0016] In this disclosure, whenever an element or a group of elements is preceded with the transitional phrase "comprising", it is understood that we also contemplate the same element or group of elements with transitional phrases "consisting essentially of, "consisting", "selected from the group consisting of', "including", or "is" preceding the recitation of the element or group of elements and vice versa.

[0017] Higher education refers to the stage of formal learning that occurs after secondary education (high school) and typically involves colleges, universities, and other institutions offering advanced academic, professional, or vocational programs. It is characterized by structured

courses of study, often leading to degrees, diplomas, or certifications. Higher Education Institutions (HEIs) are organizations that provide education and training beyond the secondary (high school) level.

[0018] Evaluating teacher performance in higher education institutions is a multi-faceted process that involves assessing the effectiveness, engagement, and outcomes of educators in their roles. The evaluation can serve as a basis for improving teaching quality, career progression, and institutional reputation. Evaluating teacher performance in higher education institutions requires a structured, multi-dimensional approach to assess their effectiveness in teaching, research, and service. The proposed invention focuses on implementing the algorithms of Machine Learning Approach for studying the functions of Evaluating Teacher Performance in Higher Education.

[0019] Reference will now be made in detail to the exemplary embodiment of the present disclosure. Before describing the detailed embodiments that are in accordance with the present disclosure, it should be observed that the embodiment resides primarily in combinations arrangement of the system according to an embodiment herein and as exemplified in FIG. 1

[0020] Figure 1 illustrates the schematic view of Machine Learning Approaches for Evaluating Teacher Performance in Higher Education Institutions 100. The proposed invention 100 considers students 101 and

teachers 102 are analysed using analysis unit 103. The machine learning unit 104 will run predictive unit 105 to predict the performance of teachers 102. The results of predictive unit 105 will be displayed on display unit 106.

[0021] In the following description, for the purpose of explanation, numerous specific details are set forth in order to provide a thorough understanding of the arrangement of the system according to an embodiment herein. It will be apparent, however, to one skilled in the art that the present embodiment can be practiced without these specific details. In other instances, structures are shown in block diagram form only in order to avoid obscuring the present invention.

Gowthami S

Patent Agent

INPA 3797

On behalf of Applicant

Digitally Signed

Date: 25/11/2024

WE CLAIM

1. Machine Learning Approaches for Evaluating Teacher Performance in Higher Education Institutions, comprises of:

   Machine learning unit;

   Predictive unit and

   Display unit.
2. Machine Learning Approaches for Evaluating Teacher Performance in Higher Education Institutions, according to claim 1, includes a machine learning unit, wherein the machine learning unit will run predictive unit.
3. Machine Learning Approaches for Evaluating Teacher Performance in Higher Education Institutions, according to claim 1, includes a display unit, wherein the display unit will display the results of predictive unit.
4. Machine Learning Approaches for Evaluating Teacher Performance in Higher Education Institutions, according to claim 1, includes a predictive unit, wherein the predictive unit predict the performance of teachers.

Gowthami S

Patent Agent

INPA 3797

On behalf of Applicant

Digitally Signed

Date: 25/11/2024

ABSTRACT

MACHINE LEARNING APPROACHES FOR EVALUATING TEACHER PERFORMANCE IN HIGHER EDUCATION INSTITUTIONS

Machine Learning Approaches for Evaluating Teacher Performance in Higher Education Institutions is the proposed invention. The proposed invention focuses on understanding the functions of Evaluating Teacher Performance in Higher Education. The invention focuses on analyzing the parameters of Teacher Performance in Higher Education Institutions using algorithms of Machine Learning Approach.

Gowthami S

Patent Agent

INPA 3797

On behalf of Applicant

Digitally Signed

Date: 25/11/2024

APPLICANT:
PALLAVI ENGINEERING COLLEGE
DHANUNJAYA RAO KODALI
VISHAL RAJENDRA NIMBOLKAR
RAJAKUMARAN V
RAJABHUVANESWARI A
DR JYOTI PRASAD PATRA
RAMA DEVI C
RAM NIVAS D
SUBHAM PANKAJ SAMANTARAY
VISHAL KUMAR SHARMA
DR ASHOK KUMAR KATTA
PURINI KHYATHI

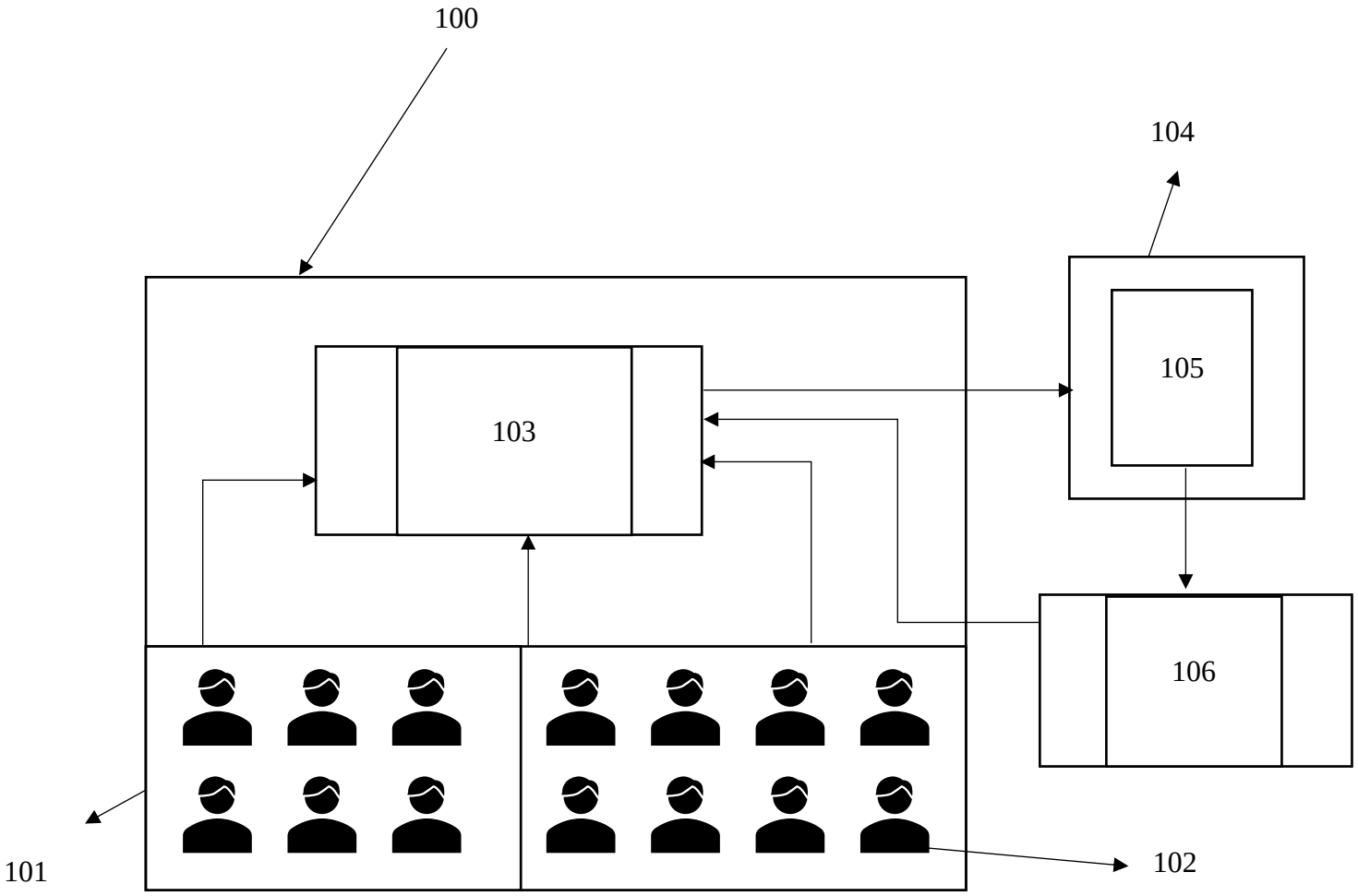

Figure 1: schematic view

Gowthami S
Patent Agent
INPA 3797
On behalf of Applicant
Digitally Signed

Date: 25/11/2024

FORM 1
THE PATENTS ACT, 1970
(39 of 1970)
&
THE PATENTS RULES, 2003
APPLICATION FOR GRANT OF PATENT
[See sections 7,54 & 135 and rule 20(1)]

(FOR OFFICE USE ONLY)

Application No.: .....
Filing Date: .....
Amount of Fee Paid: .....
CBR No.: .....
Signature: .....

1. APPLICANT(S):

Sr.No.	Name	Nationality	Address	Country	State	Distict	City
1	Pallavi Engineering College	India	Pallavi Engineering College, Abdhullapurmet Mandal, Rangareddy, Hyderabad-501505	India	Telangana	Ranga Reddy	Hyderabad
2	Dhanunjaya Rao Kodali	India	Associate Professor, HOD-CSE, Pallavi Engineering College, Abdhullapurmet Mandal, Rangareddy Hyderabad-501505	India	Telangana	Ranga Reddy	Hyderabad
3	Vishal Rajendra Nimbolkar	India	Asst.Professor, Department of MBA Sanjivani College of Engineering, Kopargaon-423601	India	Maharashtra	Ahmednagar	Kopargaon
4	Rajakumaran V	India	Director, Mathematics, Achariya Group of Institutions	India	Pondicherry	Puducherry	Puducherry
5	Rajabhuvaneswari A	India	Professor of Chemistry, Department of Science and Humanities, Karpaga Vinayaga college of Engineering and Technology, Madhuranthagam,	India	Tamil Nadu	Kanchipuram	Chengalpattu
6	Dr Jyoti Prasad Patra	India	Principal, Nigam Institute of Engineering and	India	Orissa	Cuttack	Govind Pur

			Technology, NIET UG PG Diploma Engineering, Odisha, India-754006				
7	Rama Devi C	India	Assistant Professor, Department of Electrical and Electronics Engineering, St.Joseph's College of Engineering, Chennai- 600119.	India	Tamil Nadu	Chennai	Chennai
8	Ram Nivas D	India	Assistant Professor, Department of ECE, KPR Institute of Engineering and Technology, Coimbatore-641407	India	Tamil Nadu	Coimbatore	Coimbatore
9	Subham Pankaj Samantaray	India	Assistant Professor, Department of Computer Science and Engineering, Nigam Institute of Engineering And Technology, Odisha, India-754006	India	Orissa	Cuttack	Govind Pur
10	Vishal Kumar Sharma	India	Assistant Professor, Department of Mathematics, G H Raisoni University, Pandhurna-480337	India	Madhya Pradesh	Panna	Sausar
11	Dr Ashok Kumar Katta	India	Professor, Department of BBA, VELS Institute of Science, Technology and Advanced Studies (VISTAS), Chennai- 600117	India	Tamil Nadu	Chennai	Chennai
12	Purini khyathi	India	Assistant professor, Department of AIML, QIS College of Engineering and Technology, Ongole, 523272	India	Andhra Pradesh	Prakasam	Ongole

2. INVENTOR(S):

Sr.No.	Name	Nationality	Address	Country	State	Distict	City
1	Dhanunjaya Rao Kodali	India	Associate Professor, HOD-CSE, Pallavi Engineering College, Abdhullapurmet Mandal, Rangareddy Hyderabad-501505	India	Telangana	Ranga Reddy	Hyderabad
2	Vishal Rajendra Nimbolkar	India	Asst.Professor, Department of MBA Sanjivani College of Engineering, Kopargaon-423601	India	Maharashtra	Ahmednagar	Kopargaon
3	Rajakumaran V	India	Director, Mathematics, Achariya Group of Institutions	India	Pondicherry	Puducherry	Puducherry
4	Rajabhuvaneswari A	India	Professor of Chemistry, Department of Science and Humanities, Karpaga Vinayaga college of Engineering and Technology, Madhuranthagam,	India	Tamil Nadu	Kanchipuram	Chengalpattu
5	Dr Jyoti Prasad Patra	India	Principal, Nigam Institute of Engineering and Technology, NIET UG PG Diploma Engineering, Odisha, India-754006	India	Orissa	Cuttack	Govind Pur
6	Rama Devi C	India	Assistant Professor, Department of Electrical and Electronics Engineering, St.Joseph's College of Engineering, Chennai- 600119.	India	Tamil Nadu	Chennai	Chennai
7	Ram Nivas D	India	Assistant Professor, Department of	India	Tamil Nadu	Coimbatore	Coimbatore

			ECE, KPR Institute of Engineering and Technology, Coimbatore-641407				
8	Subham Pankaj Samantaray	India	Assistant Professor, Department of Computer Science and Engineering, Nigam Institute of Engineering And Technology, Odisha, India-754006	India	Orissa	Cuttack	Govind Pur
9	Vishal Kumar Sharma	India	Assistant Professor, Department of Mathematics, G H Raisoni University, Pandhurna-480337	India	Madhya Pradesh	Panna	Sausar
10	Dr Ashok Kumar Katta	India	Professor, Department of BBA, VELS Institute of Science, Technology and Advanced Studies (VISTAS), Chennai- 600117	India	Tamil Nadu	Chennai	Chennai
11	Purini khyathi	India	Assistant professor, Department of AIML, QIS College of Engineering and Technology, Ongole, 523272	India	Andhra Pradesh	Prakasam	Ongole

3. TITLE OF THE INVENTION: MACHINE LEARNING APPROACHES FOR EVALUATING TEACHER PERFORMANCE IN HIGHER EDUCATION INSTITUTIONS

4. ADDRESS FOR CORRESPONDENCE OF APPLICANT / AUTHORISED PATENT AGENT IN INDIA:
No 325, 17th main, B block, 3rd stage Vijayanagar, Mysuru-570030

Telephone No.:
Fax No.:
Mobile No: 9538377433
E-mail: sgowthami12@gmail.com

5. PRIORITY PARTICULARS OF THE APPLICATION(S) FILED IN CONVENTION COUNTRY:

Sr.No.	Country	Application Number	Filing Date	Name of the Applicant	Tilte of the Invention

6. PARTICULARS FOR FILING PATENT COOPERATION TREATY (PCT) NATIONAL PHASE APPLICATION:

International Application Number	International Filing Date as Allotted by the Receiving Office
PCT//	

7. PARTICULARS FOR FILING DIVISIONAL APPLICATION

Original (first) Application Number	Date of Filing of Original (first) Application

8. PARTICULARS FOR FILING PATENT OF ADDITION:

Main Application / Patent Number:	Date of Filing of Main Application

9. DECLARATIONS:

(i) Declaration by the inventor(s)

I/We ,Dhanunjaya Rao Kodali,Vishal Rajendra Nimbolkar,Rajakumaran V,Rajabhuvaneswari A,Dr Jyoti Prasad Patra,Rama Devi C,Ram Nivas D,Subham Pankaj Samantaray,Vishal Kumar Sharma,Dr Ashok Kumar Katta,Purini khyathi, is/are the true & first inventor(s) for this invention and declare that the applicant(s) herein is/are my/our assignee or legal representative.

(a) Date: -----

(b) Signature(s) of the inventor(s): .....

(c) Name(s): Dhanunjaya Rao Kodali,Vishal Rajendra Nimbolkar,Rajakumaran V,Rajabhuvaneswari A,Dr Jyoti Prasad Patra,Rama Devi C,Ram Nivas D,Subham Pankaj Samantaray,Vishal Kumar Sharma,Dr Ashok Kumar Katta,Purini khyathi

(ii) Declaration by the applicant(s) in the convention country

I/We, the applicant(s) in the convention country declare that the applicant(s) herein is/are my/our assignee or legal representative.

(a) Date: -----

(b) Signature(s) : .....

(c) Name(s) of the singnatory: Pallavi Engineering College,Dhanunjaya Rao Kodali,Vishal Rajendra Nimbolkar,Rajakumaran V,Rajabhuvaneswari A,Dr Jyoti Prasad Patra,Rama Devi C,Ram Nivas D,Subham Pankaj Samantaray,Vishal Kumar Sharma,Dr Ashok Kumar Katta,Purini khyathi

(iii) Declaration by the applicant(s)

- **The Complete specification relating to the invention is filed with this application.**
- **I am/We are, in the possession of the above mentioned invention.**
- **There is no lawful ground of objection to the grant of the Patent to me/us.**

10. FOLLOWING ARE THE ATTACHMENTS WITH THE APPLICATION:

Sr.	Document Description	FileName

I/We hereby declare that to the best of my/our knowledge, information and belief the fact and matters stated hering are correct and I/We request that a patent may be granted to me/us for the said invention.

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Name: Gowthami S

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Gowthami S

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1	202441092083	TEMP/E-1/106516/2024-CHE	1600	71193	FORM 1	MACHINE LEARNING APPROACHES FOR EVALUATING TEACHER PERFORMANCE IN HIGHER EDUCATION INSTITUTIONS
2	E-12/18763/2024/CHE	202441092083	2500	71193	FORM 9	----

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APPLICANT NAME	Ms. K. Parvathavarthini
TITLE OF INVENTION	SYSTEM FOR MEDICAL IMAGE SEGMENTATION USING FOCUSING NETWORK AND SWIN TRANSFORMER DEEP LEARNING APPROACH
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	anuragshri76@gmail.com
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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
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APPLICATION STATUS	Awaiting Request for Examination

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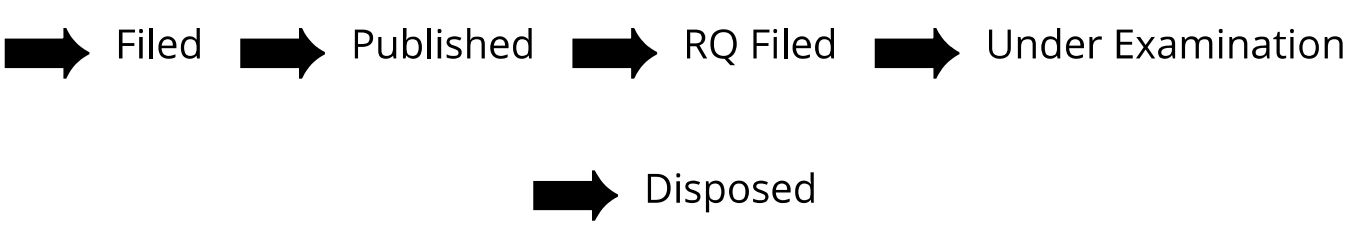

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(71)**Name of Applicant :**

1)Naveen. S

Address of Applicant :Assistant Professor, Department of ECE, St.Peter's Engineering College, Hyderabad- 500100 Hyderabad ---------- ----------

2)Santosh Jaini

3)Phani Monogya Katikireddi

4)KSN. Sindhujaa

5)M. Gayathri

6)Najeem Dheen Abdul Majeeth

7)C. Soundarya

8)Saminathan C

9)Dr Ravi M Yadahalli

10)Kumar N

11)Vaduganathan D

12)Karthi K

Name of Applicant : NA

Address of Applicant : NA

(72)**Name of Inventor :**

1)Naveen. S

Address of Applicant :Assistant Professor, Department of ECE, St.Peter's Engineering College, Hyderabad- 500100 Hyderabad ---------- ----------

2)Santosh Jaini

Address of Applicant :Database Engineer, Plot no - 104, Anupama Nagar, North Hasthinapuram, Hyderabad, Telangana, India- 500079 Hyderabad ---------- ----------

3)Phani Monogya Katikireddi

Address of Applicant :Devops Engineer, USDA, 10/134, Opp Bhavani Casting, Sri Phanibhushana Steels, Kakinada, India- 533005 Kakinada ---------- ----------

4)KSN. Sindhujaa

Address of Applicant :Assistant Professor, Department of CSE, P.A. College of Engineering and Technology, Pollachi- 642002 Pollachi ---------- ----------

5)M. Gayathri

Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, P.A College of Engineering and Technology- 642002 Pollachi ---------- ----------

6)Najeem Dheen Abdul Majeeth

Address of Applicant :Assistant Professor, Department of Information Technology, St. Joseph's Institute of Technology, OMR, Chennai- 600 119 Chennai ---------- ----------

7)C. Soundarya

Address of Applicant :Assistant Professor, Department of Information Technology, K.Ramakrishnan College of Engineering, Trichy- 621112 Samayapuram ---------- ----------

8)Saminathan C

Address of Applicant :Assistant Professor, Department of Mathematics, SNS College of Technology, Coimbatore- 641035 Coimbatore ---------- ----------

9)Dr Ravi M Yadahalli

Address of Applicant :Professor, Department of ECE, Methodist College of Engineering and Technology (Autonomous), Abids, Hyderabad ,Telangana- 500001 Hyderabad ---------- ----------

10)Kumar N

Address of Applicant :Professor, Department of Computer Science and Engineering, Vels Institute of Science Technology and Advanced Studies, Chennai- 600117 Chennai ---------- ----------

11)Vaduganathan D

Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, Erode Sengunthar Engineering College, Erode, 638 057 Erode ---------- ----------

12)Karthi K

Address of Applicant :Assistant Professor, Department of Mechanical Engineering, Sri Sai Ranganathan Engineering College, Coimbatore- 641109 Thondamuthur ---------- ----------

(57) Abstract :

Machine Learning-Enhanced Security and Privacy in 6G Wireless Communication Using Fog and Edge Computing is the proposed invention. The proposed invention focuses on understanding the functions of Fog and Edge Computing. The invention focuses on analyzing the parameters of Security and Privacy in 6G Wireless Communication using algorithms of Machine Learning Approach.

No. of Pages : 14 No. of Claims : 5

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Application Details	
APPLICATION NUMBER	202441098988
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	13/12/2024
APPLICANT NAME	1 . Dr. VINEETHA KR 2 . Dr. V.KANNAN 3 . Dr.D.VIJAYA SARADHI 4 . Dr.MUTHURAMAN SUBBIAH 5 . Dr.T.LALITHA 6 . Dr. P. MANIKANDAN 7 . Mr.S.PRAKASH 8 . Mr.S ASHOK KUMAR 9 . Dr. N. JOSE PARVIN PRAVEENA 10 . Dr.C. SHOBANA 11 . MRS.M.PRABA 12 . Mr. N. ANAND KUMAR
TITLE OF INVENTION	Detection of Breast Cancer using Artificial Neural Networks
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	arinnapatent@gmail.com

ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
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PUBLICATION DATE (U/S 11A)	20/12/2024

Application Status	
APPLICATION STATUS	**Awaiting Request for Examination**

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Application Details	
APPLICATION NUMBER	202421103078
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	26/12/2024
APPLICANT NAME	PANDIT DEENDAYAL ENERGY UNIVERSITY
TITLE OF INVENTION	BIODIESEL PRODUCTION FROM ACID OIL USING PROCESS INTENSIFIED GLYCEROLYSIS PROCESS.
FIELD OF INVENTION	CHEMICAL
E-MAIL (As Per Record)	
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(21) Application No.202421074889 A

(43) Publication Date : 15/11/2024

(54) Title of the invention : MACHINE LEARNING-BASED APPROACHES FOR ANALYSING THE INFLUENCE OF SOCIAL MEDIA ADDICTION ON ACADEMIC RESILIENCE AND MENTAL HEALTH IN HIGHER EDUCATION STUDENTS

(51) International classification :G06N0020000000, G16H0050300000, G06Q0050000000, G16H0020700000, G16H0010200000

(86) International Application No :NA
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(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(71)**Name of Applicant :**

1)Shweta Gupta
Address of Applicant :Assistant Professor, Computer Science & Engineering Medi-Caps University, Indore- 453331, Madhya Pradesh, India ---------- ----------

2)Punita Borpujari Deori

3)S. Benisha

4)Dr. Manju Singh

5)Dr. Harish N

6)S.Gayathri

7)R.Vani

8)Dr.T.Bheem Rao

9)M. Vijetha

10)Udayakumar N

11)Dr Suniti Kumar Kuriyal

12)Dr. Rakesh Kumar Joshi

Name of Applicant : NA

Address of Applicant : NA

(72)**Name of Inventor :**

1)Shweta Gupta
Address of Applicant :Assistant Professor, Computer Science & Engineering Medi-Caps University, Indore- 453331, Madhya Pradesh, India ---------- ----------

2)Punita Borpujari Deori
Address of Applicant :Assistant Professor, Department of Psychology, University of Science and Technology Meghalaya, Ri-Bhoi- 793101, Meghalaya, India. ---------- ----------

3)S. Benisha
Address of Applicant :Department of IT, St.Joseph's College of Engineering, OMR Road, Chennai, Tamilnadu, India. ---------- ----------

4)Dr. Manju Singh
Address of Applicant :Head of the Psychology, Department, D.S College, Aligarh, Uttar Pradesh, India- 202001 ---------- ----------

5)Dr. Harish N
Address of Applicant :Assistant Professor, Department of MBA, The Oxford College of Engineering, Bangalore- 560 068, Bangalore South, Karnataka, India. ---------- ----------

6)S.Gayathri
Address of Applicant :Assistant Professor, Department of Artificial Intelligence and Data Science, K.Ramakrishnan College of Engineering, Samayapuram, Trichy- 621112, Tamilnadu, India. ---------- ----------

7)R.Vani
Address of Applicant :Assistant Professor, Department of Computer Science, Dr. SNS Rajalakshmi College of Arts and Science, Coimbatore, Tamilnadu, India. ---------- ----------

8)Dr.T.Bheem Rao
Address of Applicant :H.No: 2-7-1346/1, Vijayapal colony, NGOs colony Road, Hanamkonda. Telangana, India. ---------- ----------

9)M. Vijetha
Address of Applicant :Assistant Professor, Department of Computer Science, Sri Ramakrishna College of Arts and Science, Coimbatore,641006, Tamilnadu, India. ---------- ----------

10)Udayakumar N
Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, Vels Institute of Science Technology and Advanced Studies, Pallavaram, Chennai - 600117, Tamilnadu, India. ---------- ----------

11)Dr Suniti Kumar Kuriyal
Address of Applicant :Senior Assistant Professor, Department of Botany, Pt.L.M.S.Sridev Suman University Campus, Rishikesh, Dehradun, Uttarakhand, India. ---------- ----------

12)Dr. Rakesh Kumar Joshi
Address of Applicant :Senior Assistant Professor, Department of Chemistry, Pt.L.M.S.Sridev Suman University Campus, Rishikesh, Dehradun, Uttarakhand, India. ---------- ----------

(57) Abstract :
MACHINE LEARNING-BASED APPROACHES FOR ANALYSING THE INFLUENCE OF SOCIAL MEDIA ADDICTION ON ACADEMIC RESILIENCE AND MENTAL HEALTH IN HIGHER EDUCATION STUDENTS The method for the development of the widespread use of social media among higher education students has raised concerns about its potential impact on academic resilience and mental health. By leveraging large datasets collected from surveys, social media activity logs, and psychological assessments, we utilize machine learning techniques such as classification, regression, and clustering to identify patterns and predictors of academic resilience and mental health outcomes. Models like decision trees, support vector machines, and neural networks are employed to assess the extent to which social media addiction correlates with indicators of academic performance, stress, anxiety, and overall mental well-being. Insights derived from this analysis aim to inform targeted interventions to help students manage their social media use while fostering academic resilience and supporting mental health. The results of this research hold the potential to guide educators, policymakers, and mental health professionals in developing strategies for improving student outcomes in higher education. FIG.1

No. of Pages : 15 No. of Claims : 1

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(19) INDIA
(22) Date of filing of Application :06/01/2024

(21) Application No.202441001223 A
(43) Publication Date : 02/02/2024

(54) Title of the invention : ANALYSIS OF THE IMPACT OF ENGLISH LANGUAGE ON CULTURAL IDENTITY OF A NATION USING MACHINE LEARNING APPROACHES

(51) International classification :G06N0020000000, G06F0040400000, G06N0003080000, G09B0019060000, G06K0009620000
(86) International Application No :NA
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(61) Patent of Addition to Application Number :NA
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Filing Date :NA

(71)**Name of Applicant :**
1)Dr.V.N.Sudheer
Address of Applicant :Associate Professor, School of Social Sciences and Humanities, CMR University, Bangalore, 562149 Bangalore ---------- ----------
2)Dr. A.A.Jayashree Prabhakar
3)Dr. J. V. Balasubramanian
4)Dr.N.Sinthuja
5)Dr.K.Bhavani
6)Dr.Thahira Rahmath
7)Mrs.Pratibha Pandey
8)Ms.Sangeetha BK
9)Ms.R. Abeetha
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)Dr.V.N.Sudheer
Address of Applicant :Associate Professor, School of Social Sciences and Humanities, CMR University, Bangalore, 562149 Bangalore ---------- ----------
2)Dr. A.A.Jayashree Prabhakar
Address of Applicant :Associate Professor, Department of English, School of Languages, Vels Institute of Science, Technology and Advanced Studies(VISTAS),Chennai-600117 Chennai ---------- ----------
3)Dr. J. V. Balasubramanian
Address of Applicant :Associate Professor/ School Of Management/ CMR University, Bengaluru, Karnataka, 562149. Bengaluru ---------- ----------
4)Dr.N.Sinthuja
Address of Applicant :Assistant Professor,English,Vels Institute Of Science Technology And Advanced Studies, Chennai, 600117 Chennai ---------- ----------
5)Dr.K.Bhavani
Address of Applicant :Assistant Professor, English, Shri Krishna Swamy College For Women, Chennai-600040 Chennai ---------- ----------
6)Dr.Thahira Rahmath
Address of Applicant :Assistant Professor, 43/3, Buddi Shahib Street, Broadway-600001 Chennai ---------- ----------
7)Mrs.Pratibha Pandey
Address of Applicant :Assistant Professor CMR University Bangalore-562149 Bangalore ---------- ----------
8)Ms.Sangeetha BK
Address of Applicant :Assistant Professor, Department Of Media Studies, Kristu Jayanti College Autonomous, Bangalore 560077 Bangalore ---------- ----------
9)Ms.R. Abeetha
Address of Applicant :Assistant Professor, Dept of English, Vels Institute of Science , Technology and Advanced Studies, VISTAS, Chennai Chennai ---------- ----------

(57) Abstract :
Analysis of the impact of English language on cultural identity of a Nation using machine learning approaches is the proposed invention. The proposed invention focuses on understanding the impact of English language in shaping the nation. The invention focuses on analyzing the impact of English language on cultural identity of a Nation using algorithms of machine learning.

No. of Pages : 14 No. of Claims : 5

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Application Details	
APPLICATION NUMBER	202441005369
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	25/01/2024
APPLICANT NAME	1 . Dr. A. Loganathan 2 . Dr. S. Sreelakshmi 3 . Mr. Ajay Pal Singh 4 . Mr. Parvez Rahi 5 . Mr. Amit Kumar Jaiswal 6 . Dr. A. Selvaraj 7 . Mrs. T. Iswarya 8 . Ms. A. Punitha 9 . Dr. G. Jayaraman 10 . Dr. S. Senthamilselvi 11 . Dr. Harikumar Pallathadka
TITLE OF INVENTION	MATHEMATICAL FRAMEWORKS FOR SECURE CRYPTOGRAPHY USING ADVANCING ENCRYPTION TECHNOLOGIES
FIELD OF INVENTION	COMMUNICATION
E-MAIL (As Per Record)	patentpointservices@gmail.com
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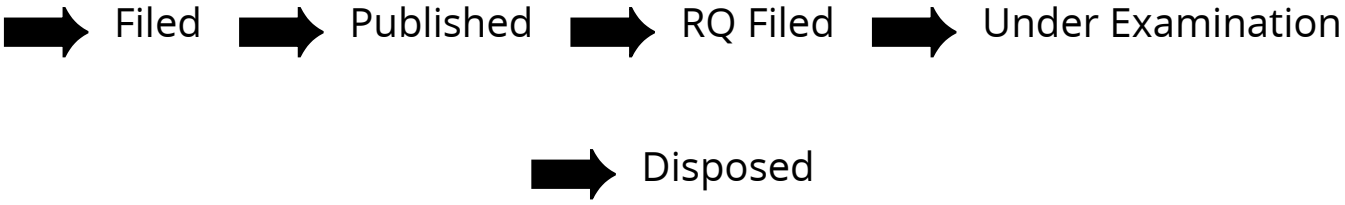

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Application Details	
APPLICATION NUMBER	202441006326
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	31/01/2024
APPLICANT NAME	1 . P. VALARMATHI 2 . Dr.A.PACKIALATHA
TITLE OF INVENTION	A GAME-BASED VIRTUAL REALITY SYSTEM FOR FOSTERING JOINT ATTENTION IN AUTISTIC KIDS
FIELD OF INVENTION	MECHANICAL ENGINEERING
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(21) Application No.202441010163 A
(43) Publication Date : 08/03/2024

(54) Title of the invention : EARLY DETECTION OF PLANT DISEASES THROUGH LEAF ANALYSIS: AN IOT AND MACHINE LEARNING APPROACH

(51) International classification :G06Q0050020000, G16H0050200000, G06N0005000000, G06N0020000000, G06N0020200000
(86) International Application No :NA
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(61) Patent of Addition to Application Number :NA
Filing Date :NA
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Filing Date :NA

(71)**Name of Applicant :**
1)Dr.RadhaMahendran
Address of Applicant :Professor &Head, Bioinformatics Department, Vels Institute of Science Technology and Advanced Studies, Pallavaram, Chennai-117, Kanchipuram, Tamilnadu, India. ---------- ----------
2)Dr.Prem Kumar Gautam
3)Ms. G. Kalaiarasi
4)Prof.(Dr.) Avadhesh Kumar Koshal
5)D.Viji
6)Dr Ananya Baidya
7)Yudhveer Singh Moudgil
8)Dr Karthikeyan M V
9)Dr.Ritika Mehra
10)Mrs.S.Kayathri
11)Anthony Savio Herminio da Piedade Fernandes
12)P Joel Josephson
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)Dr.RadhaMahendran
Address of Applicant :Professor &Head, Bioinformatics Department, Vels Institute of Science Technology and Advanced Studies, Pallavaram, Chennai-117, Kanchipuram, Tamilnadu, India. ---------- ----------
2)Dr.Prem Kumar Gautam
Address of Applicant :Associate Professor and Head, Research And P.G. Department Of Botany, N.T.V.S'S G.T.Patil Arts, Commerce and Science College, Nandurbar 425 412, Maharashtra, India. ---------- ----------
3)Ms. G. Kalaiarasi
Address of Applicant :Assistant Professor, Department of Food Technology, Dhanalakshmi Srinivasan College of Engineering, Coimbatore - 641 105, Tamilnadu, India. ---------- ----------
4)Prof.(Dr.) Avadhesh Kumar Koshal
Address of Applicant :Professor, Faculty of Science, Motherhood University, Roorkee, Haridwar, Uttarakhand, India. ---------- ----------
5)D.Viji
Address of Applicant :AP/Artificial Intelligence and Data Science, Erode Sengunthar Engineering College, Erode, pin- 638057, Tamilnadu, India. ---------- ----------
6)Dr Ananya Baidya
Address of Applicant :Project Associate, Crop Production Division, ICAR-CRIJAF, Barrackpore, Kolkata -700121, North 24 Parganas, West Bengal, India. ---------- ----------
7)Yudhveer Singh Moudgil
Address of Applicant :Assistant Professor/ Computer Science and Engineering, Dev Bhoomi Uttarakhand University, Dehradun, Uttarakhand,248007, India. ---------- ----------
8)Dr Karthikeyan M V
Address of Applicant :Associate professor/ECE, St. Joseph's Institute of Technology, Chennai, Chengalpattu, Tamilnadu, India. ---------- ----------
9)Dr.Ritika Mehra
Address of Applicant :Professor/ Computer Science and Engineering, Dev Bhoomi Uttarakhand University, Dehradun, Uttarakhand, 248007, India. ---------- ----------
10)Mrs.S.Kayathri
Address of Applicant :Assistant Professor/MCA, M.Kumarasamy College of Engineering,Karur,639113, Tamilnadu, India. ---------- ----------
11)Anthony Savio Herminio da Piedade Fernandes
Address of Applicant :Founder Owner, Trading Equations, 54/C, Xell, Bastora, Bardez, North Goa, Goa – 403507, India. ---------- ----------
12)P Joel Josephson
Address of Applicant :Associate Professor/ ECE, Malla Reddy Engineering College, Secunderabad, 500100, Medchal Malkajgiri, Telangana, India. ---------- ----------

(57) Abstract :
EARLY DETECTION OF PLANT DISEASES THROUGH LEAF ANALYSIS: AN IOT AND MACHINE LEARNING APPROACH A method for the development of at the early detection of such diseases is one possibility for lowering plant mortality rates. Machine learning (ML), a type of artificial intelligence technology that allows researchers to enhance and develop without being explicitly programmed, is used in this study to build early prediction models for plant disease diagnosis. Due to the similarities of crops throughout the early phonological phases, crop classification has proved problematic. Plants are considered to be vital as they are the resource of energy provider to mankind. Leaves can be affected at any time between sowing and harvesting. It can lead to huge loss on the production of crop and economical value of market. Therefore, leaf disease recognition plays a vital role in agricultural field. But, it requires enormous manpower, huge processing time and extensive knowledge about plant diseases. The agricultural industry has experienced a decline in income in recent years due to the prevalence of bacterial, viral, and fungal infections. These pathogens give rise to diseases that progressively impact plants, leading to crop loss, diminished fruit quality, and plant mortality. FIG.1

No. of Pages : 14 No. of Claims : 1

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Application Details	
APPLICATIONNUMBER	202441022306
APPLICATIONTYPE	ORDINARYAPPLICATION
DATEOFFILING	22/03/2024
APPLICANTNAME	1. N.SATISHKUMAR 2. M.HIMA BINDU 3 . N.SURESHKUMAR 4 . Dr. SHARDA ACHARYA 5 . Dr.R.V.SUGANYA 6 . Dr.M.VETRIVEL 7 . Dr.D.ELUMALAI 8 . Dr .CH. SRINIVASARAO 9 . SUJITHA NANDIPATI 10 . Mrs. MENDA SREEVANI 11 . Ms. G CHITANYA 12 . Dr. ASHISH GUPTA
TITLEOFINVENTION	ANALYSIS OF COMMUNICATION AND PUBLIC SPEAKING SKILLS IN ENGLISH
FIELDOFINVENTION	ELECTRONICS
E-MAIL(AsPer Record)	arinnapatent@gmail.com
ADDITIONAL-EMAIL(AsPerRecord)	
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Application Status	
APPLICATIONSTATUS	Awaiting Request for Examination

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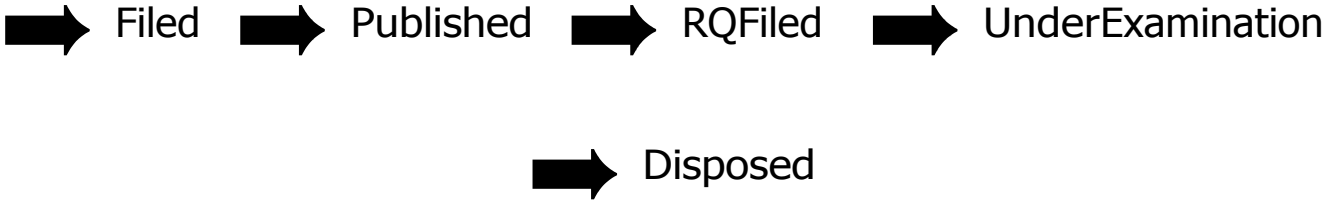

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Application Details	
APPLICATION NUMBER	202441023295
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	25/03/2024
APPLICANT NAME	1 . V.THIRUMURUGAN 2 . Dr.S.THIRUMAL 3 . Dr, N. KUMAR 4 . Dr.A.MANİKANDAN 5 . Dr. K. KALAIVANI 6 . Dr. R. ANANDAN 7 . Dr. R. VIJAYARANGAN
TITLE OF INVENTION	MULTIFUNCTIONAL AGRITEC ROBOT USING IOT BLUETOOTH TECHNOLOGY USING SENSORS
FIELD OF INVENTION	MECHANICAL ENGINEERING
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	vstm2016@gmail.com
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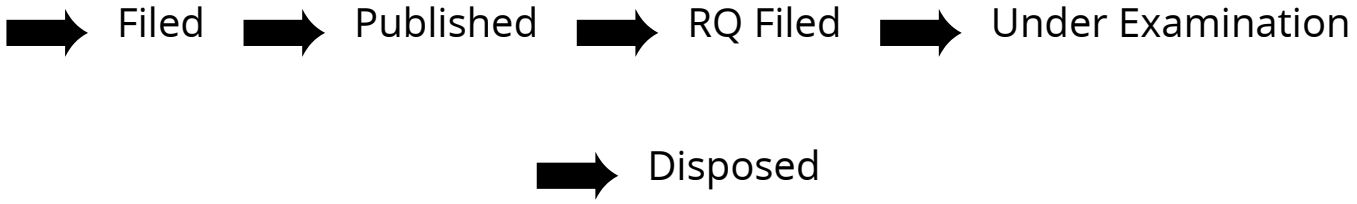

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/04/2024

(21) Application No.202441029039 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : GROUNDWATER MANAGEMENT WITH IOT-BASED SMART WELLS FOR ENHANCED MONITORING AND CONTROL

(51) International classification	:B09C0001000000, E21B0049080000, H04L0012540000, H04W0024100000, G01V0009020000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
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(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
1)Dr. G. REVATHY
Address of Applicant :Assistant Professor, Department of Computer Science and Engineering Vels Institute of Science Technology and Advanced Studies (VISTAS), Velan Nagar, P.V. Vaithiyalingam Road, Pallavaram, Chennai, Tamil Nadu, India. Pin code - 600117. ---------- ----------
2)Dr. D. P. SUTHANTHIRA DEVI
3)Dr. S. HELEN ROSELIN GRACY
4)Dr. B. CHITRADEVI
5)Dr. A. PASUMPON PANDIAN
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)Dr. G. REVATHY
Address of Applicant :Assistant Professor, Department of Computer Science and Engineering Vels Institute of Science Technology and Advanced Studies (VISTAS), Velan Nagar, P.V. Vaithiyalingam Road, Pallavaram, Chennai, Tamil Nadu, India. Pin code - 600117. ---------- ----------
2)Dr. D. P. SUTHANTHIRA DEVI
Address of Applicant :Assistant Professor, Department of Dam Sci-ems: and Business Systems, School of Computing, SRM Institute of Science and Technology, SRM Nagar, Kattankulathur, Chengalpattu District, Tamil Nadu, India. Pin code-603203. ---------- ----------
3)Dr. S. HELEN ROSELIN GRACY
Address of Applicant :Associate Professor, Department of Management Studies, Sri Sairam Institute of Technology, Sai Leo Nagar, West Tambaram, Chennai, Tamil Nadu, India. Pin code-600044. ---------- ----------
4)Dr. B. CHITRADEVI
Address of Applicant :Assistant Professor, Department of Computer Applications, SRM institute of Science and Technology, SRM Nagar, Chennai - Trichy Highway, Near Samayapuram, Tiruchirapalli, Tamil Nadu, India. Pin code-621105. ---------- ----------
5)Dr. A. PASUMPON PANDIAN
Address of Applicant :Professor and Dean, R&D, Care College of Engineering, # 27, Thayanur, Tiruchirapalli, Tamil Nadu, India. Pin code-620009. ---------- ----------

(57) Abstract :
Abstract Sustainable use of water resources is dependent on effective groundwater management, which is especially important in areas where water pollution and shortages are. on the rise. Manual interventions and periodic measurements are common in traditional groundwater monitoring and management methods, however they aren't always precise or accurate. Using Internet of Things (IoT) technology to build smart wells that can better monitor and regulate groundwater supplies is a new approach that this research suggests as a response to these problems. IoT smart wells include a network of sensors that can measure a number of variables in real- time, including water level, quality, temperature and pressure. By monitoring groundwater dynamics in real_time these sensors reveal any irregularities or problems, paving the way for preventative measures in management. ln addition by connecting various I0T devices data can be sent remotely and monitored centrally. This allows for more informed decisions and better use-of resources. The smart wells include controls and actuators that let you automate pumping operations which means you can optimize groundwater recharging and extraction. This system ensures Sustainable groundwater management while reducing operating costs and energy consumption by combining cloud techniques. It can adaptively modify pumping rates depending on real- time data and specified targets.

No. of Pages : 17 No. of Claims : 6

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Application Details	
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APPLICATION TYPE	ORDINARY APPLICATION
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APPLICANT NAME	1 . Dr. G. REVATHY 2 . Dr. D. P. SUTHANTHIRA DEVI 3 . Dr. S. HELEN ROSELIN GRACY 4 . Dr. B. CHITRADEVI 5 . Dr. A. PASUMPON PANDIAN
TITLE OF INVENTION	GROUNDWATER MANAGEMENT WITH IOT-BASED SMART WELLS FOR ENHANCED MONITORING AND CONTROL
FIELD OF INVENTION	BIOTECHNOLOGY
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	revathy.se@velsuniv.ac.in
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APPLICATION STATUS	Awaiting Request for Examination

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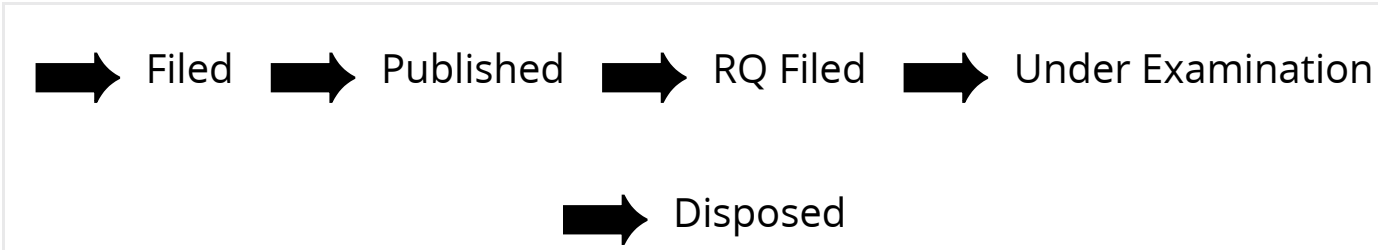

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Document Name	*Created Date/Uploaded Date
202441029039-Form 1-100424.pdf	15/04/2024
202441029039-Form 2(Title Page)-100424.pdf	15/04/2024
202441029039-Form 9-100424.pdf	15/04/2024

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PT836

D/ 53477 / 2024

"FORM 1
THE PATENTS ACT 1970 (39 of 1970) and
THE PATENTS RULES, 2003 **APPLICATION FOR GRANT OF PATENT**
(See section 7, 54 and 135 and sub-rule (1) of rule 20)

710060935

Application No.	202441029039
Filing date:	10/04/24
Amount of Fee paid:	1750/-
CBR No:	24532
Signature:	10/4/24

1. APPLICANT'S REFERENCE /IDENTIFICATION NO. (AS ALLOTTED BY OFFICE)

2. TYPE OF APPLICATION [Please tick (✓) at the appropriate category]

Ordinary (✓)		Convention ( )		PCT-NP ( )	
Divisional ( )	Patent of Addition ()	Divisional ( )	Patent of Addition ( )	Divisional ( )	Patent of Addition ( )

3A. APPLICANT(S)

Name in Full	Nationality	Country of Residence	Address of the Applicant	
Dr. G REVATHY	INDIAN	INDIA	House No.	Assistant Professor, Department of Computer Science and Engineering, Vels Institute of Science Technology and Advanced Studies (VISTAS)
			Street	Velan Nagar, P.V. Vaithiyalingam Road, Pallavaram,
			City	Chennai
			State	Tamil Nadu
			Country	India
			Pin code	600 117

Name in Full	Nationality	Country of Residence	Address of the Applicant	
			House No.	Assistant Professor, Department of Data Science and Business Systems,

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Dr. D. P. SUTHANTHIRA DEVI	INDIAN	INDIA		School of Computing, SRM Institute of Science and Technology
			Street	SRM Nagar
			City	Kattankulathur , Chengalpattu District
			State	Tamil Nadu
			Country	India
			Pin code	603 203
Name in Full	Nationality	Country of Residence	Address of the Applicant	
Dr. S. HELEN ROSELIN GRACY	INDIAN	INDIA	House No.	Associate Professor, Department of Management Studies, Sri Sairam Institute of Technology
			Street	Sai Leo Nagar, West Tambaram
			City	Chennai
			State	Tamil Nadu
			Country	India
			Pin code	600 044
Name in Full	Nationality	Country of Residence	Address of the Applicant	
Dr. B. CHITRADEVI	INDIAN	INDIA	House No.	Assistant Professor, Department of Computer Applications, SRM Institute of Science and Technology,
			Street	SRM Nagar, Chennai - Trichy Highway, Near Samayapuram,
			City	Tiruchirapalli
			State	Tamil Nadu
			Country	India
			Pin code	621 105
Name in Full	Nationality	Country of Residence	Address of the Applicant	
Dr. A. PASUMPON	INDIAN	INDIA	House No.	Professor and Dean, R&D, Care College of Engineering
			Street	# 27, Thayanur
			City	Tiruchirapalli
			State	Tamil Nadu

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PANDIAN			Country	India
			Pin code	620 009

3B. CATEGORY OF APPLICANT [Please tick (✓) at the appropriate category]

Natural Person (✓)	Other than Natural Person		
	Small Entity ( )	Startup ( )	Others ( )

4. INVENTOR(S) [Please tick (✓) at the appropriate category]

Are all the inventor(s) same as the applicant(s) named above?	Yes (✓)	No ( )

If "No", furnish the details of the inventor(s)

5. TITLE OF THE INVENTION: **GROUNDWATER MANAGEMENT WITH IoT-BASED SMART WELLS FOR ENHANCED MONITORING AND CONTROL.**

~~**6. AUTHORISED REGISTERED PATENT AGENT(S)**~~	~~IN/PA No.~~	
	~~Name~~	
	~~Mobile No.~~	
7. ADDRESS FOR SERVICE OF APPLICANT IN INDIA	Name	Dr. G REVATHY, Assistant Professor, Department of Computer Science and Engineering, Vels Institute of Science Technology and Advanced Studies (VISTAS)
	Postal Address	Velan Nagar, P.V. Vaithiyalingam Road, Pallavaram, Chennai – 600 117, Tamil Nadu, India
	Telephone No.	
	Mobile No.	+ (91) – 95662 90952
	Fax No.	
	E-mail ID	revathy.se@velsuniv.ac.in

~~**8. IN CASE OF APPLICATION CLAIMING PRIORITY OF APPLICATION FILED IN CONVENTION COUNTRY, PARTICULARS OF CONVENTION APPLICATION**~~

Country	Application Number	Filing date	~~Name of the applicant~~	~~Title of the invention~~	~~IPC (as classified in the convention country)~~

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~~9. IN CASE OF PCT NATIONAL PHASE APPLICATION, PARTICULARS OF INTERNATIONAL APPLICATION FILED UNDER PATENT CO-OPERATION TREATY (PCT)~~	
~~International application number~~	~~International filing date~~
~~10. IN CASE OF DIVISIONAL APPLICATION FILED UNDER SECTION 16, PARTICULARS OF ORIGINAL (FIRST) APPLICATION~~	
~~Original (first) application No.~~	~~Date of filing of original (first) application~~
~~11. IN CASE OF PATENT OF ADDITION FILED UNDER SECTION 54, PARTICULARS OF MAIN APPLICATION OR PATENT~~	
~~Main application/patent No.~~	~~Date of filing of main application~~

12. DECLARATIONS

(i) Declaration by the inventor

(**In case the applicant is an assignee**: the inventor may sign herein below or the applicant may upload the assignment or enclose the assignment with this application for patent or send the assignment by post/electronic transmission duly authenticated within the prescribed period).

We, the above-named inventor are the true & first inventor for this Invention and declare that the applicant herein is our assignee or legal representative.

(a) Date: 07/04/2024
(b) Signature: Revathy
(c) Name: Dr. G REVATHY

(a) Date: 07/04/2024
(b) Signature: P Suthanthira Devi
(c) Name: Dr. D. P. SUTHANTHIRA DEVI

(a) Date: 07/04/2024
(b) Signature: S Helen Roselin
(c) Name: Dr. S. HELEN ROSELIN GRACY

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(a) Date: 07/04/2024
(b) Signature: B Chitradevi
(c) Name: Dr. B. CHITRADEVI

(a) Date: 07/04/2024
(b) Signature:
(c) Name: Dr. A. PASUMPON PANDIAN

~~(ii) Declaration by the applicant(s) in the convention country~~

~~(In case the applicant in India is different than the applicant in the convention country: the applicant in the convention country may sign herein below or applicant in India may upload the assignment from the applicant in the convention country or enclose the said assignment with this application for patent or send the assignment by post/electronic transmission duly authenticated within the prescribed period)~~

~~I/We, the applicant(s) in the convention country declare that the applicant(s) herein is/are my/our assignee or legal representative.~~

~~(a) Date~~

~~(b) Signature(s)~~

(c) ~~Name(s) of the signatory~~

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(iii) Declaration by the applicant(s)

We the applicant(s) hereby declare(s) that: -

We are in possession of the above-mentioned invention.

The provisional/complete specification relating to the invention is filled with this Application.

- ☐ The invention as disclosed in the specification uses the biological material from India and the necessary permission from the competent authority shall be submitted by me/us before the grant of patent to me/us-NA
- ☐ There is no lawful ground of objection(s) to the grant of the Patent to me/us. - NA

We are the true & first inventor(s).

We are the assignee or legal representative of true & first inventor(s).

- ☐ The application or each of the applications, particulars of which are given in Paragraph-8, was the first application in convention country/countries in respect of my/our invention(s)-NA

We claim the priority from the above-mentioned application(s) filed in convention country/countries and state that no application for protection in respect of the invention had been made in a convention country before that date by me/us or by any person from which We derive the title.

- ☐ My/our application in India is based on international application under Patent Cooperation Treaty (PCT) as mentioned in Paragraph-9- NA

The application is divided out of my /our application particulars of which is given in Paragraph-10 and pray that this application may be treated as deemed to have been filed on DD/MM/YYYY under section 16 of the Act

- ☐ The said invention is an improvement in or modification of the invention particulars of which are given in Paragraph-11 – NA

13. FOLLOWING ARE THE ATTACHMENTS WITH THE APPLICATION

(a) Form 2

Item	Details	Fee	Remarks
Complete/ provisional specification) #	No. of pages - One		
No. of Claim(s)	No. of claims Six and No. of pages –One		
Abstract	No. of pages - One		
No. of Drawing(s)	No. of drawings and No. of pages – Nine and Five		

10-Apr-2024/53477/2024410290 39/Form 1

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In case of a complete specification, if the applicant desires to adopt the drawings filed with his provisional specification as the drawings or part of the drawings for the complete specification under rule 13(4), the number of such pages filed with the provisional specification are required to be mentioned here.

(b) Complete specification (in conformation with the international application)/as amended before the International Preliminary Examination Authority (IPEA), as applicable (2 copies).

(c) Sequence listing in electronic form

(d) Drawings (in conformation with the international application)/as amended before the International Preliminary Examination Authority (IPEA), as applicable (2 copies).

(e) Priority document(s) or a request to retrieve the priority document(s) from DAS (Digital Access Service) if the applicant had already requested the office of first filing to make the priority document(s) available to DAS.

(f) Translation of priority document/Specification/International Search Report/International Preliminary Report on Patentability.

(g) Statement and Undertaking on Form 3

(h) Declaration of Inventorship on Form 5

(i) Power of Authority

(j).....

Total fee Rs. 4,500.00 in bearing Demand Draft No. 215621 **Dated** 04.04.2024 **drawn on Axis Bank, Nanganallur Branch.**

We hereby declare that to the best of our knowledge, information and belief the fact and matters slated herein are correct and We request that a patent may be granted to us for the said invention.

Dated this Wednesday of 10th of April 2024

(a) Signature: Revathy

(b) Name: Dr. G REVATHY

(a) Signature: P. Suthanthira Devi

(b) Name: Dr. D. P. SUTHANTHIRA DEVI

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(a) Signature:
(b) Name: Dr. S. HELEN ROSELIN GRACY

(a) Signature:
(b) Name: Dr. B. CHITRADEVI

(a) Signature:
(b) Name: Dr. A. PASUMPON PANDIAN

To,
The Controller of Patents
The Patent Office, at Guindy, Chennai – 600 032.

Note: -

* Repeat boxes in case of more than one entry.
* To be signed by the applicant(s) or by authorized registered patent agent otherwise where mentioned.
* Tick (✓)/cross (x) whichever is applicable/not applicable in declaration in paragraph-12.
* Name of the inventor and applicant should be given in full, family name in the beginning.
* Strike out the portion which is/are not applicable.
* For fee: See First Schedule";

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THE GAZETTEE OF INDIA – EXTRAORDINARY [PART II—Sec 3(ii)]

FORM 2
THE PATENT ACT 1970
(39 of 1970)
&
The Patents Rules, 2003
PROVISIONAL/COMPLETE SPECIFICATION
(See Section 10 and Rule 13)
COMPLETE

GROUNDWATER MANAGEMENT WITH IoT-BASED SMART WELLS FOR ENHANCED MONITORING AND CONTROL

1. APPLICANT

(a) NAME: Dr. G REVATHY, Dr. D. P. SUTHANTHIRA DEVI,
Dr. S. HELEN ROSELIN GRACY, Dr. B. CHITRADEVI,
Dr. A. PASUMPON PANDIAN

The following specification particularly describes the invention and the manner in which it is to be performed

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Field of Invention

Environmental monitoring and management, with a particular emphasis on groundwater resources, is the domain of innovation for this system. This innovation solves a serious problem by allowing for the control and real-time monitoring of groundwater levels, quality, and extraction operations via the integration of Internet of Things (IoT) technology with smart well infrastructure. In order to build a complete system for long-term groundwater management, this novel method integrates sensor technologies, microcontrollers, communication modules, and data analytics. The innovation is a huge step forward since it provides a comprehensive solution for remote, accurate, and continuous monitoring of groundwater parameters. Insights into groundwater dynamics may used by users including water authorities, environmental agencies, and local communities to make educated choices about resource distribution, conservation initiatives, and pollution mitigation plans. The systems automated control features make groundwater resource management more responsive and efficient, allowing for optimal extraction rates with minimal energy consumption and environmental effect. The innovation offers predictive analytics via the integration of IoT and cloud methods, allowing for preventative actions to avoid groundwater overexploitation, pollution, or depletion.

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Background of Invention

A solution to the urgent problem of efficiently monitoring and regulating groundwater resources led to the development of IoT smart wells that integrate with the cloud for groundwater management. We need creative technologies that can provide us insights in real-time and allow us make proactive decisions since groundwater is becoming more scarce, contaminated, and poorly managed. Manual measurements and periodic sampling were the old standards for groundwater monitoring; they were labor-intensive, inaccurate, and took a lot of time. The data that was gathered was therefore not always easily accessible for analysis and decision-making, which resulted in management methods that were more reactive than proactive. With the development of the IoT dispersed sensors can now be monitored remotely and data collected in real-time, completely altering the landscape of water resource management. Critical characteristics including groundwater levels, quality, and environmental conditions may be continually and accurately monitored with the use of sensors placed into wells. By offering a centralized and scalable platform for data storage, processing, and analysis, cloud computing significantly boosts the capabilities of IoT-based systems. Stakeholders are empowered to make rapid, informed decisions due to cloud-based solutions that provide real-time access to information from anywhere.

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Object of Invention

- STM32F103C8T6 (Blue Pill)
- Water Level Sensor
- Water Quality Sensor
- Temperature Sensor
- Pressure Sensor
- Flow Sensor
- LoRaWAN Module
- Submersible Pump

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Summary of Invention

Integrated groundwater management system built using IoT technology and a number of sensors and components is the invention at hand. The STM32F103C8T6 microcontroller, or the Blue Pill, is the brains of the operation, sending signals to all the other parts to do their jobs. It is possible to deploy this microcontroller in dispersed or remote contexts because to its cost-effectiveness, energy efficiency, and performance balance. The system uses a network of sensors to track several variables pertaining to the amount and quality of groundwater: A water level sensor measures the water level in the well in real-time, enabling constant monitoring of groundwater levels and trends. For the purpose of calculating groundwater resources and evaluating aquifer recharge rates, this data is vital. In addition, some sensors are used to monitor water quality indicators like conductivity, pH, and dissolved oxygen levels.

By monitoring groundwater chemistry for natural fluctuations or possible pollutants, these sensors may identify changes in water quality and alert authorities to impending contamination. Integrating pressure and temperature sensors allows the system to monitor the well's and the area's environmental conditions in real time. Pressure fluctuations may signal changes in aquifer dynamics or water extraction operations, while temperature variations might impact groundwater quality. These sensors assist to recognize these variations. And to keep track of how fast water is moving through the well and any connected pipes, a flow sensor is used. To evaluate groundwater extraction rates, find leaks, and optimize pump operation to reduce energy usage, this data is invaluable. An integrated LoRaWAN module allows for more efficient data transfer and communication throughout the system.

Since LoRaWAN allows for low-power wireless communication across great distances, it is perfect for use in remote monitoring applications. With this module, data collected by sensors may be safely sent to a central database or cloud service for further processing, analysis, and display. The setup comprises a submersible pump for drawing water from the ground as well as monitoring components. Remote activation and rate modification of the pump are made possible by control methods that use real-time sensor data. You may improve resource use and save energy costs by dynamically controlling groundwater extraction processes using this capability. The integrated system offers a complete solution for groundwater management by integrating remote control, data exchange via LoRaWAN, and real-time monitoring of critical parameters. In order to manage groundwater resources efficiently and sustainably, the system

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makes use of a suite of sensors and the STM32F103C8T6 microcontroller. This helps to guarantee that these resources will be available for generations to come.

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Detailed Description of Invention

The Blue Pill, or STM32F103C8T6, is an affordable microcontroller board that uses the ARM Cortex-M3 core. It is well-suited for Internet of Things (IoT) applications because to its affordable price and balanced performance. It successfully interfaces with the smart well system's sensors and actuators because to its many general-purpose input/output (GPIO) pins, analog-to-digital converters, and hardware support for communication protocols. Many do-it-yourself Internet of Things projects choose it because of its low power consumption and flexibility with different programming environments.

For precise water level measurement, use the DFRobot Gravity Analog Waterproof Water Level Sensor (SKU SEN0257) even when underwater, it gives accurate readings by taking advantage of fluctuations in water pressure. It is ideal for installation in wells or boreholes for continuous water level monitoring due to its waterproof construction, which guarantees dependable operation in a variety of environmental circumstances.

A set of pH, EC, DO, and temperature sensors are included in the Atlas Scientific Environmental Combo Kit (SKU: ENV-SEN-KIT). Proactive management techniques may be put in place to protect water resources with the help of these sensors, which provide dependable and accurate assessments of water quality indicators that are vital for identifying pollution or changes in groundwater quality.

Product code DS18B20 designates the DS18B20 Waterproof Temperature Sensor, which, despite its waterproof housing, provides accurate temperature readings. The device guarantees precise monitoring of fluctuations in groundwater temperature and is suitable for immersion in wells or boreholes. Effective groundwater management is made possible by its sturdy build and waterproof design, which make it ideal for long-term deployment in challenging environmental circumstances.

To find out how deep or high the water is in a well or borehole, you may use the atmospheric pressure, which is a good indicator of the water pressure, and the Bosch BMP180 Digital Barometric Pressure Sensor (SKU BMP180). It is a trustworthy option for tracking variations in water pressure due to its digital output and excellent precision; this data is crucial for evaluating groundwater levels and dynamics.

Flowline EchoPod DL14 Ultrasonic Liquid Level Transmitter and Controller (model DL14-01) detect changes in liquid levels over time, but it can also infer flow rates. It is ideal for

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tracking the rate of water extraction or recharge in wells or boreholes, thanks to its precise and dependable ultrasonic readings, which help with effective groundwater management.

IoT devices may communicate over great distances with the help of LoRaWAN modules like the RN2483. LoRaWAN technology is well-suited for applications like smart well monitoring in rural places because it enables low-power, long-range wireless communication across substantial distances. Connecting smart wells to a central monitoring system has never been easier than with the RN2483 module. It supports the LoRaWAN protocol stack and has a UART interface, making it simple to integrate with microcontrollers.

To access groundwater, submersible pumps are immersed into the hole or well where the water is collected. The flow rate of groundwater extraction may be adjusted using these pumps, which can raise water from great depths. Groundwater extraction may be fine-tuned to match demand, reduce energy consumption, and guarantee sustainable usage by modifying the pump's speed or operation. Because of their efficiency, dependability, and ability to work underwater, submersible pumps are often used in groundwater management systems.

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Drawings

Block Diagram

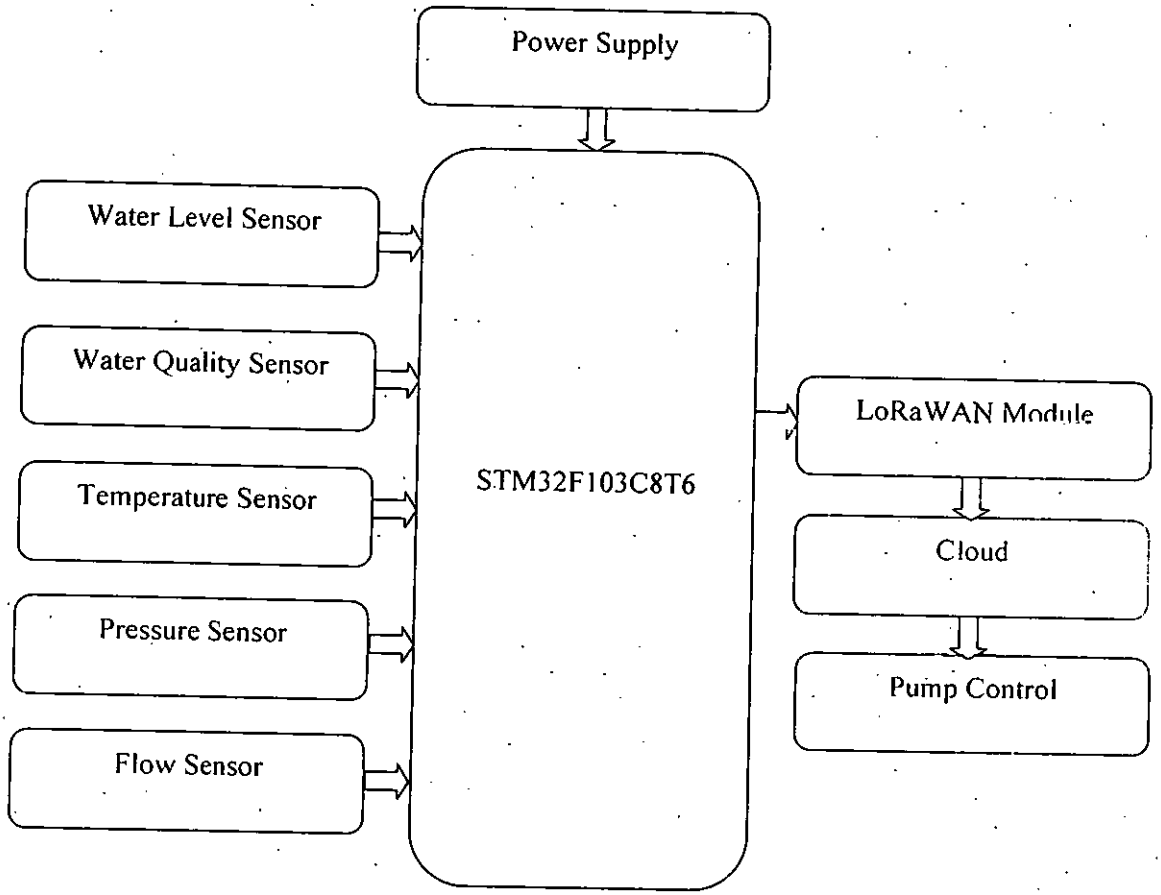

Figure (i) shows the Block Diagram

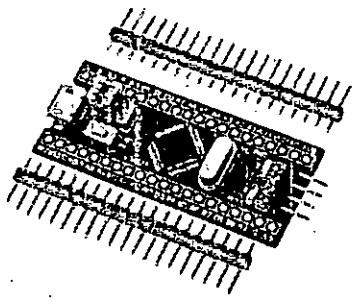

Figure (ii) shows the STM32F103C8T6 (Blue Pill)

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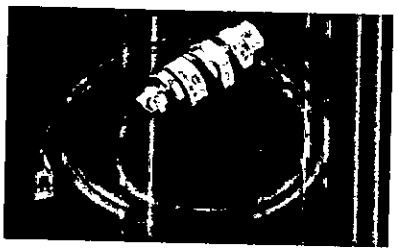

Figure (iii) shows the Water Level Sensor

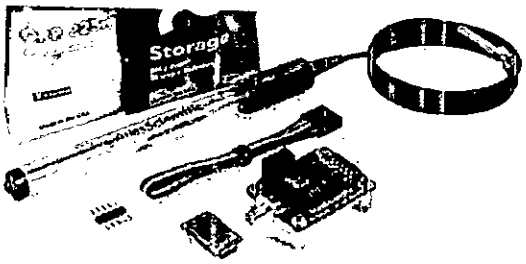

Figure (iv) shows the Water Quality Sensor

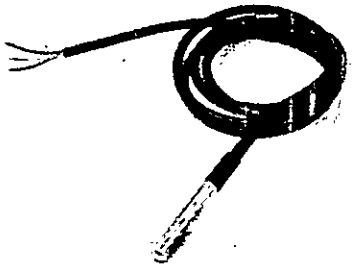

Figure (v) shows the Temperature Sensor

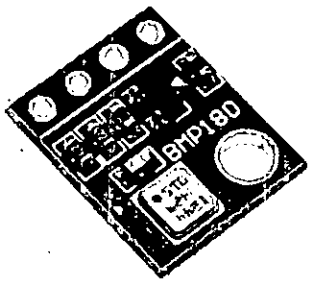

Figure (vi) shows the Pressure Sensor

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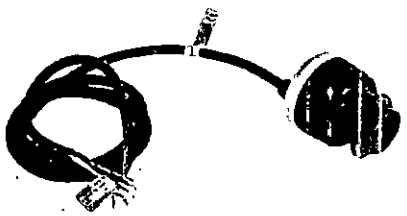

Figure (vii) shows the Flow Sensor

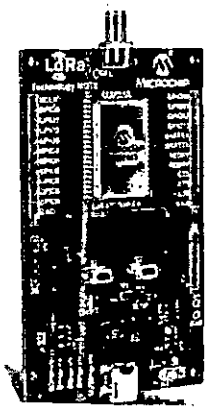

Figure (viii) shows the LoRaWAN Module

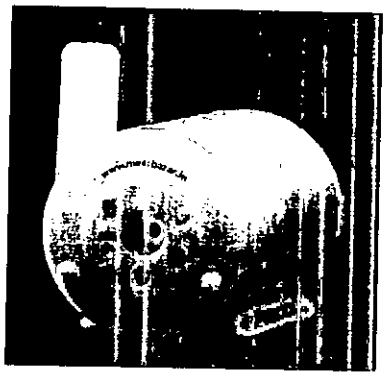

Figure (ix) shows the Submersible Pump

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Detailed Description of Drawings

(1) Figure (i) shows the Block Diagram

(2) Figure (ii) shows the STM32F103C8T6 (Blue Pill)

The Blue Pill, or STM32F103C8T6, is an affordable microcontroller board that uses the ARM Cortex-M3 core. It is well-suited for Internet of Things (IoT) applications because to its affordable price and balanced performance. It successfully interfaces with the smart well system's sensors and actuators because to its many general-purpose input/output (GPIO) pins, analog-to-digital converters, and hardware support for communication protocols. Many do-it-yourself Internet of Things projects choose it because of its low power consumption and flexibility with different programming environments.

(3) Figure (iii) shows the Water Level Sensor

For precise water level measurement, use the DFRobot Gravity Analog Waterproof Water Level Sensor (SKU SEN0257) even when underwater, it gives accurate readings by taking advantage of fluctuations in water pressure. It is ideal for installation in wells or boreholes for continuous water level monitoring due to its waterproof construction, which guarantees dependable operation in a variety of environmental circumstances.

(4) Figure (iv) shows the Water Quality Sensor

A set of pH, EC, DO, and temperature sensors are included in the Atlas Scientific Environmental Combo Kit (SKU: ENV-SEN-KIT). Proactive management techniques may be put in place to protect water resources with the help of these sensors, which provide dependable and accurate assessments of water quality indicators that are vital for identifying pollution or changes in groundwater quality.

(5) Figure (v) shows the Temperature Sensor

Product code DS18B20 designates the DS18B20 Waterproof Temperature Sensor, which, despite its waterproof housing, provides accurate temperature readings. The device guarantees precise monitoring of fluctuations in groundwater temperature and is suitable for immersion in wells or boreholes. Effective groundwater management is made possible by its sturdy build and waterproof design, which make it ideal for long-term deployment in challenging environmental circumstances.

(6) Figure (vi) shows the Pressure Sensor

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To find out how deep or high the water is in a well or borehole, you may use the atmospheric pressure, which is a good indicator of the water pressure, and the Bosch BMP180 Digital Barometric Pressure Sensor (SKU BMP180). It is a trustworthy option for tracking variations in water pressure due to its digital output and excellent precision; this data is crucial for evaluating groundwater levels and dynamics.

(7) Figure (vii) shows the Flow Sensor

Flowline EchoPod DL14 Ultrasonic Liquid Level Transmitter and Controller (model DL14-01) detect changes in liquid levels over time, but it can also infer flow rates. It is ideal for tracking the rate of water extraction or recharge in wells or boreholes, thanks to its precise and dependable ultrasonic readings, which help with effective groundwater management

(8) Figure (viii) shows the LoRaWAN Module

IoT devices may communicate over great distances with the help of LoRaWAN modules like the RN2483. LoRaWAN technology is well-suited for applications like smart well monitoring in rural places because it enables low-power, long-range wireless communication across substantial distances. Connecting smart wells to a central monitoring system has never been easier than with the RN2483 module. It supports the LoRaWAN protocol stack and has a UART interface, making it simple to integrate with microcontrollers.

(9) Figure (ix) shows the Submersible Pump

To access groundwater, submersible pumps are immersed into the hole or well where the water is collected. The flow rate of groundwater extraction may be adjusted using these pumps, which can raise water from great depths. Groundwater extraction may be fine-tuned to match demand, reduce energy consumption, and guarantee sustainable usage by modifying the pump's speed or operation. Because of their efficiency, dependability, and ability to work underwater, submersible pumps are often used in groundwater management systems.

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Different Embodiment of Invention

a. **Solar-Powered Variant**: Use solar panels to generate energy; this will make the system more sustainable and cut down on operating expenses; and it will also make it accessible to areas far from power grids.

b. **Mobile Application Integration**: Create a monitoring and control app that users can use from their smartphones or tablets. This app will help them access system settings, get warnings, and retrieve data from sensors in real-time.

c. **Modular Design**: To facilitate scalability and configuration flexibility, use a modular design. Customization is a breeze, allowing users to include or exclude sensors and components according to site circumstances and monitoring needs.

d. **AI-Based Predictive Analytics**: To help users proactively manage water resources and reduce risks, include AI algorithms that can assess past data and forecast changes in groundwater levels and quality.

e. **Remote Maintenance and Diagnostics**: Integrate tools for remote diagnostics and maintenance so that professionals can fix issues and update software without ever having to set foot on the premises. This will cut down on downtime and keep costs down.

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Application of Invention

i. Continuously monitoring the level, quality, and state of groundwater wells to help in resource management, pollution detection, and evaluation of aquifer recharge.

ii. By making real-time adjustments to pumping operations using data from sensors and predictive analytics, we can maximize groundwater extraction rates, reduce water waste, and guarantee the sustainable use of water resources.

iii. Prompt response to alleviate environmental concerns, maintain ecosystems, and defend human health may be achieved by early identification of groundwater contamination incidents through water quality monitoring.

iv. Help farmers maximize crop yields with minimal water waste by giving them real-time data on soil moisture and groundwater availability; this will support precision irrigation strategies.

v. In order to enable sustainable development and resilient urban design, it is important to monitor groundwater levels and pressures in urban areas. This will help avoid land subsidence, infrastructure damage, and water shortages.

vi. To better prepare for and respond to disasters, authorities should monitor groundwater levels during droughts and floods. This would allow them to plan ahead for water supply interruptions, distribute resources efficiently, and help communities who are impacted.

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We Claim

The invention of Groundwater Management with IoT-Based Smart Wells for Enhanced Monitoring and Control comprises of:

1. Users may benefit from our system's improved accuracy and real-time monitoring of groundwater levels, quality, and environmental indicators, which allows them to make informed decisions and manage resources effectively.
2. Our technology improves groundwater extraction rates by dynamically managing pumping operations based on sensor data. This reduces energy consumption and ensures sustainable exploitation of water resources.
3. The system's water quality sensors allow for the rapid detection of pollutants in groundwater, allowing for the fast action necessary to avert pollution events, preserve ecosystems, and ensure public health.
4. Affordable groundwater management, with minimal operating costs and maximum resource usage efficiency, is possible with our modular architecture and IoT technology integration.
5. By reducing water loss, avoiding over-extraction, and lessening the effect of groundwater depletion on ecosystems, our technology actively monitors and controls water use, promoting environmental sustainability.
6. Our system's modular design and ability to integrate with mobile apps make it highly customizable and scalable, making it ideal for a wide range of users and applications.

(Dr. G REVATHY)

(Dr. D. P. SUTHANTHIRA DEVI)

(Dr. S. HELEN ROSELIN GRACY)

(Dr. B. CHITRADEVI)

(Dr. A. PASUMPON PANDIAN)

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Abstract

Sustainable use of water resources is dependent on effective groundwater management, which is especially important in areas where water pollution and shortages are on the rise. Manual interventions and periodic measurements are common in traditional groundwater monitoring and management methods, however they aren't always precise or accurate. Using Internet of Things (IoT) technology to build smart wells that can better monitor and regulate groundwater supplies is a new approach that this research suggests as a response to these problems. IoT smart wells include a network of sensors that can measure a number of variables in real-time, including water level, quality, temperature, and pressure. By monitoring groundwater dynamics in real time, these sensors reveal any irregularities or problems, paving the way for preventative measures in management. In addition, by connecting various IoT devices, data can be sent remotely and monitored centrally. This allows for more informed decisions and better use of resources. The smart wells include controls and actuators that let you automate pumping operations, which means you can optimize groundwater recharging and extraction. This system ensures sustainable groundwater management while reducing operating costs and energy consumption by combining cloud techniques. It can adaptively modify pumping rates depending on real-time data and specified targets.

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FORM 9
THE PATENT ACT, 1970
(39 of 1970)
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REQUEST FOR PUBLICATION
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1. Name, Address and Nationality of the Applicant

(a) NAME: Dr. G REVATHY, Dr. D. P. SUTHANTHIRA DEVI, Dr. S. HELEN ROSELIN GRACY, Dr. B. CHITRADEVI, Dr. A. PASUMPON PANDIAN

2. To be Signed by the Applicant Or his authorized registered Patent Agent

hereby request for early publication of our application for Patent No.....dated ..... under section 11A(2) of the Act.
Dated this .....day of .....20.

3. Name of the Natural Person Has signed

(a) Signature: Revathy
(b) Name: Dr. G REVATHY

710060937

(a) Signature: P. Suthanthira Devi
(b) Name: Dr. D. P. SUTHANTHIRA DEVI

(a) Signature: S Helen Roselin Gracy
(b) Name: Dr. S. HELEN ROSELIN GRACY

(a) Signature: B Chitradevi
(b) Name: Dr. B. CHITRADEVI

(a) Signature: A Pasumpon Pandian
(b) Name: Dr. A. PASUMPON PANDIAN

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TITLE OF INVENTION	FABRICATION OF GRAPHENE OXIDE NANOSTRUCTURES FOR ENHANCED PERFORMANCE IN GAS SENSING APPLICATIONS
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E-MAIL (As Per Record)	nmkumar797@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
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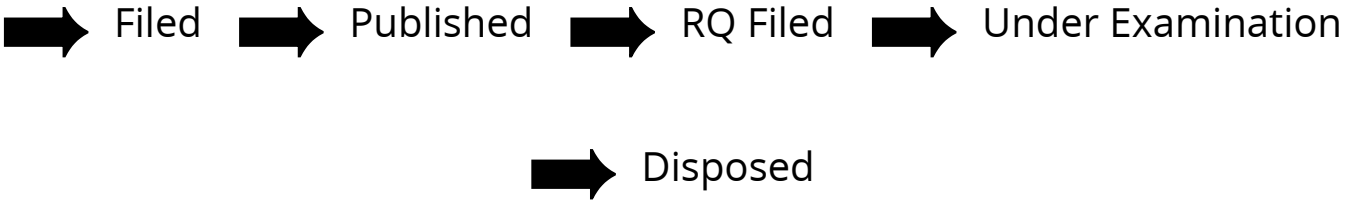

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FORM 2

THE PATENTS ACT, 1970

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COMPLETE SPECIFICATION

(See section 10 and rule 13)

TITLE OF THE INVENTION

"**ALGORITHM FOR REAL-TIME ECONOMIC FORECASTING AND ANALYSIS**"

Applicant(s)

NAME	**NATIONALITY**	**ADDRESS**
1. Dr. R. Siva Ram Prasad	Indian	Professor, Acharya Nagarjuna University, Guntur, Pin: 522510, Andhra Pradesh, India.
2. Dr. P. Mohan	Indian	Principal, Vijaya Institute of Management, Khammam, Pin: 507305, Telangana, India.
3. Dr. Shibani Pattanayak	Indian	Associate Professor, Department of HSS, Institute of Technical Education and Research Siksha 'O' Anusandhan University, Jagamohan Nagar, Jagamara, Khurda, Pin: 751030, Odisha, India.
4. Mrs. Deepti Patnaik	Indian	Assistant Professor, Kalinga University, Naya Raipur, Pin: 492101, Chhattisgarh, India.
5. Dr. Maitrayee Rout	Indian	Associate Professor, Gandhi Institute of Excellent Technocrats, Ghangapatna, Khorda, Pin:751003, Odisha, India.

6. Dr. Nisha Dubey	Indian	Assistant Professor, Department of English, Bhakt Mata Karma Government College, Samoda, Rajpur CG, Pin: 493441, Chhattisgarh, India.
7. Dr. Isha Patnaik	Indian	Faculty of Commerce, Royal Higher Secondary School, Jeypore, Koraput, Pin: 764001, Odisha, India.
8. Dr. R. Premalatha	Indian	Assistant Professor, Vels Institute of Science Technology and Advanced Studies, P. V Vaithiyalingam Road, Velan Nagar, Pallavaram, Chennai, Chengalpet, Pin: 600117, Tamilnadu, India.
9. Mrs. Swagatika Choudhury	Indian	Assistant Professor, Department of HSS, Institute of Technical Education and Research Siksha 'O' Anusandhan University, Jagamohan Nagar, Jagamara, Khurda, Pin: 751030, Odisha, India.
10. Dr. Swayam Prabha Satpathy	Indian	Associate Professor, Department of HSS, Institute of Technical Education and Research Siksha 'O' Anusandhan University, Jagamohan Nagar, Jagamara, Khurda, Pin: 751030, Odisha, India.
11. Dr. K. Sivaperumal	Indian	Assistant Professor, Department of Commerce Faculty of Science and Humanities, SRM Institute of Science and Technology, Kattankulathur, Chennai, Pin: 603203, Tamilnadu, India.
12. Dr. Harikumar Pallathadka	Indian	Director and Professor, Manipur International University, Ghari, Imphal, Imphal West, Pin: 795140, Manipur, India.

The following specification particularly describes the nature of the invention and the manner in which it is performed:

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FIELD OF THE INVENTION

The present invention pertains to the field of data analysis and forecasting, specifically within the realm of economics. More particularly, it addresses the challenges associated with real-time economic forecasting and analysis by proposing an innovative algorithmic approach. The invention leverages advanced statistical techniques, machine learning algorithms, and real-time data processing methods to provide accurate and timely predictions of economic trends and indicators. By enabling rapid analysis and interpretation of large volumes of economic data streams, the invention contributes to informed decision-making processes for businesses, governments, financial institutions, and other stakeholders in the global economy.

BACKGROUND OF THE INVENTION

The following description of related art is intended to provide background information pertaining to the field of the disclosure. This section may include certain aspects of the art that may be related to various features of the present disclosure. However, it should be appreciated that this section be used only to enhance the understanding of the reader with respect to the present disclosure, and not as admissions of prior art.

Economic forecasting is indispensable for strategic decision-making in various sectors, including finance, commerce, and policy-making. Traditional forecasting methods often rely on historical data and static models, which may struggle to capture the dynamic and complex nature of economic systems. Moreover, the delay in data processing and analysis can impede timely decision-making, particularly in rapidly changing economic environments.

Real-time economic forecasting and analysis aim to address these challenges by providing timely insights into emerging trends and indicators. However, achieving accurate real-time forecasts poses significant computational and methodological challenges. Real-time forecasting requires the ability to process vast amounts of data quickly, adapt to changing economic conditions, and generate reliable predictions in near real-time.

The present invention addresses these challenges by proposing an innovative algorithmic approach to real-time economic forecasting and analysis. By combining advanced statistical techniques with machine learning algorithms and real-time data processing methods, the invention enables the rapid analysis of economic data streams and the generation of accurate forecasts. This approach facilitates timely decision-making by providing stakeholders with up-to-date insights into economic trends and indicators.

The present invention represents a significant advancement in the field of economic forecasting by offering a practical solution for real-time analysis and prediction of economic phenomena. By leveraging cutting-edge computational techniques, the invention empowers businesses, governments, financial institutions, and other stakeholders to make informed decisions in today's fast-paced economic landscape.

OBJECTIVE OF THE INVENTION

Some of the objects of the present disclosure, which at least one embodiment herein satisfies are listed herein below.

The primary objective of the present invention is to provide a comprehensive solution for real-time economic forecasting and analysis. By leveraging advanced computational techniques, including statistical methods and machine learning algorithms, the invention aims to overcome the limitations of traditional forecasting approaches and deliver accurate predictions of economic trends and indicators in near real-time. This objective is driven by the need for timely and reliable information to support decision-making processes in various sectors, including finance, commerce, and policy-making. The invention seeks to empower stakeholders with up-to-date insights into evolving economic conditions, enabling them to make informed decisions and mitigate risks effectively.

The invention aims to enhance the efficiency and effectiveness of economic forecasting by automating the data analysis process and reducing the time lag between data collection and decision-making. By processing large volumes of economic data streams rapidly and continuously updating its models based on

incoming information, the invention enables stakeholders to monitor economic trends closely and anticipate changes proactively. Ultimately, the objective is to equip businesses, governments, financial institutions, and other stakeholders with the tools they need to navigate the complexities of the modern economy and seize opportunities for growth and prosperity.

SUMMARY OF THE INVENTION

This section is provided to introduce certain objects and aspects of the present disclosure in a simplified form that are further described below in the detailed description. This summary is not intended to identify the key features or the scope of the claimed subject matter.

In an aspect, the present invention introduces a novel algorithm for real-time economic forecasting and analysis, revolutionizing the way economic data is processed and interpreted. By integrating state-of-the-art statistical techniques with advanced machine learning algorithms, the invention enables stakeholders to obtain accurate and timely insights into economic trends and indicators. Unlike traditional forecasting methods, which rely on static models and historical data, the invention dynamically adapts to changing economic conditions, providing stakeholders with up-to-date information to support decision-making processes.

At the core of the invention is a sophisticated data processing framework that cleans, preprocesses, and analyzes large volumes of economic data streams in real-time. The algorithm employs a combination of feature extraction, model training, and forecasting techniques to generate precise predictions of key economic variables, such as GDP growth, unemployment rates, inflation, and stock prices. Additionally, the invention includes an analysis module that provides stakeholders with actionable insights and visualizations, facilitating a deeper understanding of economic trends and their implications. Overall, the invention represents a significant advancement in the field of economic forecasting, offering a powerful tool for navigating the complexities of the modern economy and making informed decisions in a rapidly changing world.

BRIEF DESCRIPTION OF DRAWINGS

The accompanying drawings, which are incorporated herein, and constitute a part of this invention, illustrate exemplary embodiments of the disclosed methods and systems in which like reference numerals refer to the same parts throughout the different drawings. Components in the drawings are not necessarily to scale, emphasis instead being placed upon clearly illustrating the principles of the present invention. Some drawings may indicate the components using block diagrams and may not represent the internal circuitry of each component. It will be appreciated by those skilled in the art that invention of such drawings includes the invention of electrical components, electronic components or circuitry commonly used to implement such components.

FIG. 1 illustrates an exemplary algorithm for real-time economic forecasting and analysis, in accordance with an embodiment of the present disclosure.

DETAILED DESCRIPTION OF THE INVENTION

In the following description, for the purposes of explanation, various specific details are set forth in order to provide a thorough understanding of embodiments of the present disclosure. It will be apparent, however, that embodiments of the present disclosure may be practiced without these specific details. Several features described hereafter can each be used independently of one another or with any combination of other features. An individual feature may not address all of the problems discussed above or might address only some of the problems discussed above. Some of the problems discussed above might not be fully addressed by any of the features described herein.

The ensuing description provides exemplary embodiments only and is not intended to limit the scope, applicability, or configuration of the disclosure. Rather, the ensuing description of the exemplary embodiments will provide those skilled in the art with an enabling description for implementing an exemplary embodiment. It should be understood that various changes may be made in the function and arrangement of elements without departing from the spirit and scope of the disclosure as set forth.

Specific details are given in the following description to provide a thorough understanding of the embodiments. However, it will be understood by one of ordinary skill in the art that the embodiments may be practiced without these specific details. For example, circuits, systems, networks, processes, and other components may be shown as components in block diagram form in order not to obscure the embodiments in unnecessary detail. In other instances, well-known circuits, processes, algorithms, structures, and techniques may be shown without unnecessary detail to avoid obscuring the embodiments.

Also, it is noted that individual embodiments may be described as a process that is depicted as a flowchart, a flow diagram, a data flow diagram, a structure diagram, or a block diagram. Although a flowchart may describe the operations as a sequential process, many of the operations can be performed in parallel or concurrently. In addition, the order of the operations may be re-arranged. A process is terminated when its operations are completed but could have additional steps not included in a figure. A process may correspond to a method, a function, a procedure, a subroutine, a subprogram, etc. When a process corresponds to a function, its termination can correspond to a return of the function to the calling function or the main function.

The word “exemplary” and/or “demonstrative” is used herein to mean serving as an example, instance, or illustration. For the avoidance of doubt, the subject matter disclosed herein is not limited by such examples. In addition, any aspect or design described herein as “exemplary” and/or “demonstrative” is not necessarily to be construed as preferred or advantageous over other aspects or designs, nor is it meant to preclude equivalent exemplary structures and techniques known to those of ordinary skill in the art. Furthermore, to the extent that the terms “includes,” “has,” “contains,” and other similar words are used in either the detailed description or the claims, such terms are intended to be inclusive in a manner similar to the term “comprising” as an open transition word without precluding any additional or other elements.

Reference throughout this specification to “one embodiment” or “an embodiment” or “an instance” or “one instance” means that a particular feature, structure, or characteristic described in connection with the embodiment is included in at least one embodiment of the present disclosure. Thus, the appearances of the phrases “in one embodiment” or “in an embodiment” in various places throughout this specification are not necessarily all referring to the same embodiment. Furthermore, the particular features, structures, or characteristics may be combined in any suitable manner in one or more embodiments.

The terminology used herein is for the purpose of describing particular embodiments only and is not intended to be limiting of the disclosure. As used herein, the singular forms “a”, “an”, and “the” are intended to include the plural forms as well, unless the context indicates otherwise. It will be further understood that the terms “comprises” and/or “comprising,” when used in this specification, specify the presence of stated features, integers, steps, operations, elements, and/or components, but do not preclude the presence or addition of one or more other features, integers, steps, operations, elements, components, and/or groups thereof. As used herein, the term “and/or” includes any and all combinations of one or more of the associated listed items.

The algorithm for real-time economic forecasting and analysis comprises several interconnected modules, each serving a specific function in the data processing and prediction pipeline. Upon receiving real-time economic data from various sources, the algorithm initiates with a data input module responsible for aggregating and preprocessing the incoming data streams. This preprocessing step involves data cleaning, normalization, and outlier detection to ensure the integrity and quality of the input data.

Following data preprocessing, the algorithm employs a feature extraction module to identify relevant patterns and characteristics in the economic data. This module utilizes advanced techniques such as principal component analysis (PCA), wavelet transforms, and time-series decomposition to extract meaningful features that

capture the underlying dynamics of the economy. These extracted features serve as input to the subsequent modeling and forecasting stages.

The core component of the algorithm is the machine learning model, which is trained on historical economic data and updated in real-time based on the extracted features. The model may utilize various machine learning algorithms, including neural networks, decision tree ensembles, or support vector machines, to learn complex relationships and patterns in the data. Through continuous learning and adaptation, the model refines its predictions and adjusts to evolving economic conditions.

Once trained, the machine learning model is deployed in the forecasting module, where it generates real-time predictions of key economic variables. This forecasting process may involve techniques such as autoregressive integrated moving average (ARIMA), exponential smoothing, or long short-term memory (LSTM) networks, depending on the nature of the data and the forecasting horizon. The algorithm incorporates a feedback loop mechanism to evaluate the accuracy of previous forecasts and fine-tune the model parameters accordingly.

Finally, the algorithm includes an analysis module responsible for interpreting the forecasted data and providing actionable insights to stakeholders. This module generates visualizations, statistical summaries, and trend analyses of the economic forecasts, enabling stakeholders to identify emerging patterns, assess risks, and make informed decisions. By integrating these modules into a cohesive framework, the algorithm facilitates real-time economic forecasting and analysis, empowering stakeholders with timely and accurate information to navigate the complexities of the modern economy.

In this embodiment, the algorithm incorporates a hybrid forecasting approach that combines statistical time-series models with machine learning techniques. The algorithm first identifies the most suitable forecasting model based on the characteristics of the economic data and the forecasting horizon. For short-term forecasts, the algorithm may utilize traditional statistical models such as ARIMA or

exponential smoothing. For longer-term forecasts or in the presence of complex data patterns, the algorithm switches to machine learning models such as neural networks or gradient boosting machines.

To enhance the robustness of the forecasting process, the algorithm employs an ensemble forecasting strategy, wherein multiple models are trained and combined to generate consensus predictions. This ensemble approach helps mitigate the risks associated with individual model biases and uncertainties, leading to more accurate and reliable forecasts. Moreover, the algorithm dynamically adjusts the weights assigned to each model in the ensemble based on their performance over time, ensuring optimal forecasting performance in varying economic conditions.

In this embodiment, the algorithm incorporates external data sources and domain knowledge to enrich the forecasting process further. In addition to traditional economic indicators, such as GDP growth and unemployment rates, the algorithm integrates alternative data sources, such as social media sentiment, satellite imagery, and industry-specific metrics. By incorporating a diverse range of data sources, the algorithm captures a more comprehensive view of the economy and enhances the predictive power of the forecasting models.

The algorithm leverages domain-specific knowledge and expert insights to augment the forecasting process. Domain experts can provide valuable inputs on economic trends, policy changes, and other contextual factors that may impact the forecasts. The algorithm incorporates these inputs through a structured feedback mechanism, where expert judgments are integrated into the forecasting models to improve their accuracy and relevance. This collaborative approach combines the strengths of both data-driven analysis and expert judgment, resulting in more informed and actionable forecasts for stakeholders.

While considerable emphasis has been placed herein on the preferred embodiments, it will be appreciated that many embodiments can be made and that many changes can be made in the preferred embodiments without departing from the principles of the invention. These and other changes in the preferred

embodiments of the invention will be apparent to those skilled in the art from the disclosure herein, whereby it is to be distinctly understood that the foregoing descriptive matter to be implemented merely as illustrative of the invention and not as limitation.

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We Claim:

1. An algorithm for real-time economic forecasting and analysis, comprising:
   a. A data input module configured to receive real-time economic data from one or more sources;
   b. A preprocessing module configured to clean and preprocess the received data;
   c. A feature extraction module configured to extract relevant features from the preprocessed data;
   d. A machine learning model trained on historical data and updated in real-time based on the extracted features;
   e. A forecasting module configured to use the trained machine learning model to generate real-time economic forecasts;
   f. An analysis module configured to analyze the forecasted data and provide insights into economic trends and indicators.

2. The algorithm of claim 1, wherein the machine learning model comprises a neural network, a decision tree ensemble, or a support vector machine.

3. The algorithm of claim 1, wherein the real-time economic data comprises indicators such as GDP growth, unemployment rate, inflation rate, stock prices, and consumer spending.

4. The algorithm of claim 1, further comprising a feedback loop to adjust the model parameters based on the accuracy of previous forecasts.

5. The algorithm of claim 1, wherein the preprocessing module includes data cleaning, outlier detection, and normalization techniques.

6. The algorithm of claim 1, wherein the feature extraction module utilizes techniques such as principal component analysis, wavelet transforms, or time-series decomposition.

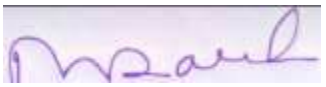
7. The algorithm of claim 1, wherein the forecasting module employs techniques such as autoregressive integrated moving average (ARIMA), exponential smoothing, or long short-term memory (LSTM) networks.

8. The algorithm of claim 1, wherein the analysis module provides visualizations, statistical summaries, and trend analyses of the forecasted data.

9. A computer-readable storage medium containing instructions that, when executed by a processor, cause the processor to perform the steps of the algorithm of claim 1.

10. A system for real-time economic forecasting and analysis, comprising one or more computing devices configured to execute the algorithm of claim 1.

Dated this 4th day of May 2024

Signature: 

Applicant(s)

Dr. R. Siva Ram Prasad et. al.

ABSTRACT

ALGORITHM FOR REAL-TIME ECONOMIC FORECASTING AND ANALYSIS

The invention relates to a system and method for real-time economic forecasting and analysis. By seamlessly integrating cutting-edge statistical methodologies with machine learning algorithms, this algorithm facilitates the real-time processing and interpretation of vast streams of economic data, enabling stakeholders to make timely, informed decisions. Through a multi-stage process encompassing data preprocessing, feature extraction, machine learning model training, and ensemble forecasting, the algorithm delivers accurate predictions of key economic indicators. Additionally, it incorporates external data sources and expert insights to enrich the forecasting process, ensuring a comprehensive and robust approach to economic analysis. Overall, this algorithm empowers businesses, governments, and financial institutions with actionable insights into the dynamic landscape of the global economy, facilitating strategic planning and risk management in today's fast-paced world.

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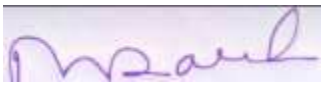
Signature: 

Applicant(s)

Dr. R. Siva Ram Prasad et. al.

पेटेंट कार्यालय
शासकीय जर्नल

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(71)**Name of Applicant :**
1)Dr. Vadhri Suryanarayana
Address of Applicant :Professor in AI&DS, Lakireddy Bali Reddy College of Engineering, Mylavaram - 521230 Mylavaram ---------- ----------
2)Ankur Bhasin
3)Dr.G. Krishnapriya
4)Arun A
5)Dr.Prasanthi Gottumukkala
6)Dr. Bandaru Srinivasa Rao
7)V. Akshaya
8)Esther A
9)Santhiya S
10)Anthony Savio Herminio Da Piedade Fernandes
11)Dabi Bhagyashree
12)Prof. Prashant Adsule
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)Dr. Vadhri Suryanarayana
Address of Applicant :Professor in AI&DS, Lakireddy Bali Reddy College of Engineering, Mylavaram - 521230 Mylavaram ---------- ----------
2)Ankur Bhasin
Address of Applicant :Assistant Professor, MBA department, R D Engineering College Ghaziabad ---------- ----------
3)Dr.G. Krishnapriya
Address of Applicant :Assistant Professor, Department of Computer Science, School of Engineering and Technology, Pondicherry University, Puducherry Puducherry ---------- ----------
4)Arun A
Address of Applicant :Assistant Professor, Vels Institute of Science Technology and Advanced Studies, Pallavaram, Chennai 117 Chennai ---------- ----------
5)Dr.Prasanthi Gottumukkala
Address of Applicant :Assistant Professor,Department of Information Technology, Gokaraju Rangaraju Institute of Engineering and Technology Hyderabad ---------- ----------
6)Dr. Bandaru Srinivasa Rao
Address of Applicant :Professor, Department of Management Studies, VFSTR Deemed to be University Vadlamudi ---------- ----------
7)V. Akshaya
Address of Applicant :Assistant Professor, Department of Hotel and Catering Management, Vels Institute of Science, Technology and Advanced Studies, Pallavaram, Chennai - 600117 Chennai ---------- ----------
8)Esther A
Address of Applicant :Assistant Professor,Department of IT, K.Ramakrishnan College Of Engineering, Samayapuram, Trichy-621112 Trichy ---------- ----------
9)Santhiya S
Address of Applicant :Assistant Professor/Artificial Intelligence And Data Science, Excel Engineering College, Namakkal,637303 Salem ---------- ----------
10)Anthony Savio Herminio Da Piedade Fernandes
Address of Applicant :Founder Owner, Trading Equations, 54/C, Xell, Bastora, Bardez, Goa (403507) Bastora ---------- ----------
11)Dabi Bhagyashree
Address of Applicant :Campus Head at IIHM Ahmedabad Ahmedabad ---------- ----------
12)Prof. Prashant Adsule
Address of Applicant :Ajeenkya D Y Patil University, School of Hotel Management, Pune Pune ---------- ----------

(57) Abstract :
Deep Learning Approaches to Analyse the Economic Impact of Travel, Tourism, and Hospitality in an Organisation is the proposed invention. The proposed invention focuses on understanding how well the aspects of travel, tourism and hospitality can help improve the economic status of an organisation using Deep learning algorithms. The invention focuses on analyzing the parameters the Economic Impact of Travel, Tourism, and Hospitality in an Organisation using algorithms of Deep Learning.

No. of Pages : 14 No. of Claims : 5

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DATE OF FILING	29/05/2024
APPLICANT NAME	1 . Ms. K. Parvathavarthini 2 . Dr. R. Anandan
TITLE OF INVENTION	SWIN TRANSFORMER FOR CT HEAD IMAGE AND MRI SPINE SEGMENTATION: A CLINICAL STUDY ON TRANSFER LEARNING FOR ACCURATE SEGMENTATION
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
E-MAIL (As Per Record)	anuragshri76@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
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PUBLICATION DATE (U/S 11A)	07/06/2024

Application Status	
APPLICATION STATUS	Awaiting Request for Examination

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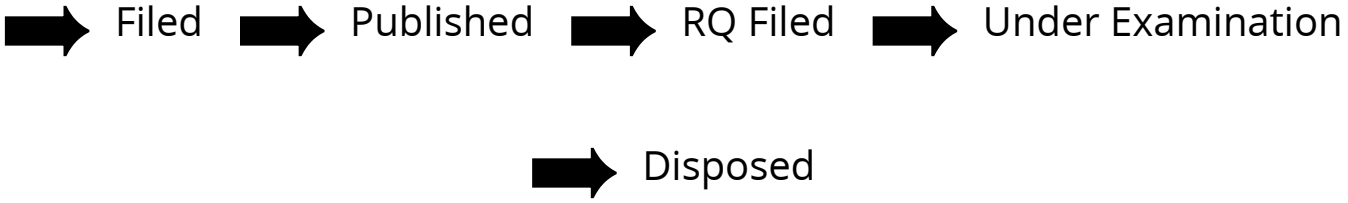

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/06/2024

(21) Application No.202441044078 A
(43) Publication Date : 21/06/2024

(54) Title of the invention : ENHANCING EMPLOYEE RETENTION THROUGH FUZZY LOGIC: A NOVEL APPROACH TO WORKFORCE STABILITY

(51) International classification	:G06Q0010100000, G06Q0010060000, G06N0007020000, G05B0013020000, G06N0007040000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
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(71)**Name of Applicant :**
1)Mr. Barttanu Kumar Das
Address of Applicant :Research Scholar, Department of Management Studies, Vels Institute of Science, Technology and Advanced Studies (VISTAS), Pallavaram, Chennai, Tamil Nadu, Pin:600117 India Chennai ---------- ----------
2)Dr. G. Rajini
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)Mr. Barttanu Kumar Das
Address of Applicant :Research Scholar, Department of Management Studies, Vels Institute of Science, Technology and Advanced Studies (VISTAS), Pallavaram, Chennai, Tamil Nadu, Pin:600117 India Chennai ---------- ----------
2)Dr. G. Rajini
Address of Applicant :Professor and Director–MoUs, Department of Management Studies, Vels Institute of Science, Technology and Advanced Studies (VISTAS), Pallavaram, Chennai, Tamil Nadu, Pin:600117 India Chennai ---------- ----------

(57) Abstract :
Employee retention is critical for organizational stability and growth. Traditional methods often fall short in addressing the multifaceted nature of employee satisfaction and retention. This invention proposes the application of fuzzy logic to improve employee retention by accurately assessing and responding to the nuanced factors that influence employee decisions. Fuzzy logic, with its ability to handle imprecise and subjective data, offers a more dynamic and responsive framework for human resource management. The proposed fuzzy logic model evaluates various factors such as job satisfaction, work-life balance, career development opportunities, and organizational culture. Through a detailed analysis and simulation, this invention demonstrates the effectiveness of the fuzzy logic approach in predicting employee turnover and enhancing retention strategies.

No. of Pages : 19 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/06/2024

(21) Application No.202441044079 A
(43) Publication Date : 21/06/2024

(54) Title of the invention : OPTIMIZING AIRPORT SECURITY CLEARANCE WITH DEEP LEARNING: AN RCNN-BASED APPROACH

(51) International classification	:G06N0003040000, G06N0003080000, G06F0021620000, G01V0005000000, G07C0009250000
(86) International Application No Filing Date	:NA :NA
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(61) Patent of Addition to Application Number Filing Date	:NA :NA
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(71)**Name of Applicant :**
1)Mr. V. Muruganandam
Address of Applicant :Research Scholar, Department of Management Studies, Vels Institute of Science, Technology and Advanced Studies (VISTAS), Pallavaram, Chennai, Tamil Nadu, Pin:600117 India Chennai ---------- ----------
2)Dr. G. Rajini
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)Mr. V. Muruganandam
Address of Applicant :Research Scholar, Department of Management Studies, Vels Institute of Science, Technology and Advanced Studies (VISTAS), Pallavaram, Chennai, Tamil Nadu, Pin:600117 India Chennai ---------- ----------
2)Dr. G. Rajini
Address of Applicant :Professor and Director –MoUs, Department of Management Studies, Vels Institute of Science, Technology and Advanced Studies (VISTAS), Pallavaram, Chennai, Tamil Nadu, Pin:600117 India Chennai ---------- ----------

(57) Abstract :
Airport security clearance is a critical process that demands efficiency and accuracy to ensure passenger safety and convenience. This invention proposes an innovative method using Region-based Convolutional Neural Networks (RCNN) to enhance security checks by automating threat detection in X-ray imagery. The proposed deep learning model aims to improve detection accuracy, reduce processing times, and minimize human error, thereby streamlining airport security operations and enhancing overall passenger experience.

No. of Pages : 17 No. of Claims : 2

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1	202441046907	TEMP/E-1/54103/2024-CHE	1600	40015	FORM 1	AI-ENABLED WATER QUALITY TESTING SYSTEM
2	E-12/8221/2024/CHE	202441046907	2500	40015	FORM 9	----

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N-0001442572	Online Bank Transfer	1806240032923	4100.00	1475001020000001

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(22) Date of filing of Application :25/06/2024

(21) Application No.202441049396 A

(43) Publication Date : 05/07/2024

(54) Title of the invention : A DATA-INTELLIGENT APPROACH TO PARK MANAGEMENT IN SMART CITIES: INTEGRATING IOT, MACHINE LEARNING, AND SOCIAL MEDIA

(51) International classification :G06N0020000000, G06Q0050260000, H04L0067120000, G06Q0030020000, F21W0131103000

(86) International Application No :NA
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(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(71)**Name of Applicant :**
1)V.Kavitha
Address of Applicant :Associate Professor/ Department of Mathematics, Vardhaman College of Engineering, Kacharam (Village), Shamshabad-501218, Ranga Reddy, Hyderabad, Telangana, India. ---------- ----------
2)Ankush M. Gund
3)Mohaideen.A
4)Mahadeva M
5)M.R.Archana Jenis
6)Dr.Suvarna Raagavendaran
7)Dr.S.Menaka
8)Ramamoorthy.S
9)Vijayalakshmi.N
10)Dr. M. Rani
11)Dr R Murugesan
12)Janani.G
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)V.Kavitha
Address of Applicant :Associate Professor/ Department of Mathematics, Vardhaman College of Engineering, Kacharam (Village), Shamshabad-501218, Ranga Reddy, Hyderabad, Telangana, India. ---------- ----------
2)Ankush M. Gund
Address of Applicant :Bharati Vidyapeeth College Of Engineering Navi Mumbai, Thane, Maharashtra, India. ---------- ----------
3)Mohaideen.A
Address of Applicant :Research Scholar, Anna University, Chennai, Tamilnadu, India. ---------- ----------
4)Mahadeva M
Address of Applicant :Assistant Professor, Department of Civil Engineering,RNS Institute of Technology Bengaluru-560098, Karnataka, India. ---------- ----------
5)M.R.Archana Jenis
Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, OMR, Chennai -600 119, Kanchipuram, Tamilnadu, India. ---------- ----------
6)Dr.Suvarna Raagavendaran
Address of Applicant :Assistant Professor, Department of Economics VISTAS Chennai-117, Kanchipuram, Tamilnadu, India. ---------- ----------
7)Dr.S.Menaka
Address of Applicant :Associate Professor-MCA, Nehru Institute of information technology and management, Coimbatore, Tamil Nadu, India. ---------- ----------
8)Ramamoorthy.S
Address of Applicant :Assistant professor /CSE, V.S.B Engineering College, Karur, 639111, Tamilnadu, India. ---------- ----------
9)Vijayalakshmi.N
Address of Applicant :Assistant professor/CSE/SNS College of technology, Coimbatore, Tamil Nadu, India. ---------- ----------
10)Dr. M. Rani
Address of Applicant :Associate professor, Kumaraguru college of technology, Saravanampatti, Coimbatore, Tamilnadu, India. ---------- ----------
11)Dr R Murugesan
Address of Applicant :Professor, Rengareddy, Secunderabad, Rengareddy, Telengana, India. ---------- ----------
12)Janani.G
Address of Applicant :Student at snsct, Kurumbapalayam, Coimbatore, Tamil Nadu, India. ---------- ----------

(57) Abstract :
A DATA-INTELLIGENT APPROACH TO PARK MANAGEMENT IN SMART CITIES: INTEGRATING IOT, MACHINE LEARNING, AND SOCIAL MEDIA The method for the development of a smart cities use data and technology to raise the standard of living for residents and increase the effectiveness of municipal services. Solutions for smart cities that depend on extensive data collecting, analysis, and decision-making are made possible by IoT and machine learning. This article addresses the difficulties in integrating IoT and machine learning in urban settings and provides an outline of the numerous uses of smart cities. The world's smart cities are the wave of the future. In order to effectively fulfill the requirements of its residents, a smart city must use the Internet of Things (IoT). In addition to utilizing digital technology, the concept of the "smart city" is a response to the political, social, and economic issues that post-industrial civilizations are facing at the beginning of the new millennium. The main emphasis is on addressing issues that urban society faces, such as resource shortage, financial crises, population expansion, healthcare, and environmental degradation. The enormous volume of IoT data that is accessible may be analyzed using Artificial Intelligence (AI), which is opening up new possibilities for the construction and administration of futuristic smart cities. FIG.1

No. of Pages : 15 No. of Claims : 1

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Application Details	
APPLICATION NUMBER	202441053417
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	12/07/2024
APPLICANT NAME	1 . Mr. Ketan Girish Bhutkar 2 . Dr. P. Balaji
TITLE OF INVENTION	“HERBAL NANO PARTICLE OF EUPHORBIACEAE FOR TREATMENT OF HEPATIC DISORDER (DIABETES)”
FIELD OF INVENTION	CHEMICAL
E-MAIL (As Per Record)	tmindia123@gmail.com
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Application Details	
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APPLICANT NAME	1 . Dr Chandrashekhar Badachi 2 . Mrs. Ponrekha M 3 . Dr.Tulsidas D 4 . Dr Karikalan L 5 . Mrs.B.Christyjuliet 6 . Mr.R.Thangaraj 7 . Mrs.Jeevitha Kandasamy 8 . S V Dharani Kumar 9 . Dr Ashok Kumar R 10 . Gowtham M 11 . Ms. S. Thenmozhi 12 . Mrs.Sumithara Arunagirinathan
TITLE OF INVENTION	HYBRID PROPULSION SYSTEM FOR ELECTRIC VEHICLES
FIELD OF INVENTION	ELECTRICAL
E-MAIL (As Per Record)	patentpublucation@gmail.com
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PUBLICATION DATE (U/S 11A)	02/08/2024

Application Status

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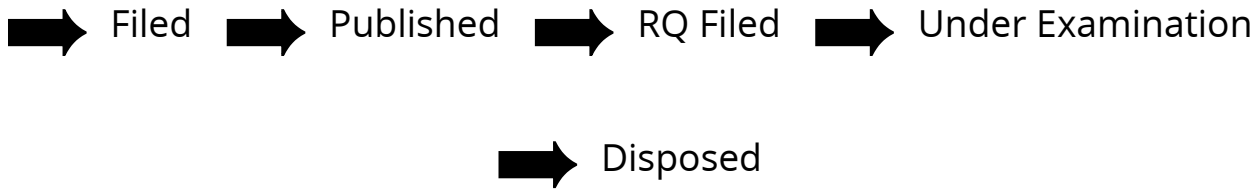

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/07/2024

(21) Application No.202441054738 A
(43) Publication Date : 02/08/2024

(54) Title of the invention : A MATHEMATICAL MODEL IN GRAPH THEORY FOR BIOLOGICAL CLASSIFICATION

(51) International classification	:G16B0040000000, G16B0020000000, G16B0040200000, G16B0005000000, G01N0015100000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
1)Dr.P.Rajiniganth
Address of Applicant :Associate Professor, Department of Mathematics, School of Engineering and Technology, Dhanalakshmi Srinivasan University, Samayapuram, Trichy, Tamilnadu, India ---------- ----------
2)Dr.T.Aparna
3)Dr.G.Rohini
4)Sakthi Ramalingam
5)I.Igno Mary
6)Dr.S.Sandhiya
7)S.Poongkodi
8)Dr.R.Ramkumar
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)Dr.P.Rajiniganth
Address of Applicant :Associate Professor, Department of Mathematics, School of Engineering and Technology, Dhanalakshmi Srinivasan University, Samayapuram, Trichy, Tamilnadu, India ---------- ----------
2)Dr.T.Aparna
Address of Applicant :Assistant Professor, Department of Mathematics, School of Engineering and Technology, Dhanalakshmi Srinivasan University, Samayapuram, Tiruchirapalli, Tamilnadu, India ---------- ----------
3)Dr.G.Rohini
Address of Applicant :Professor, Department of Electronics and Communication Engineering, St.Joseph's Institute of Technology, Chennai, Tamilnadu, India ---------- ----------
4)Sakthi Ramalingam
Address of Applicant :Assistant Professor, Department of Science and Humanities, R.M.K College of Engineering and Technology, Puduvoyal, Thiruvallur, Tamil Nadu, India ---------- ----------
5)I.Igno Mary
Address of Applicant :Assistant Professor, Department of Mathematics, School of Engineering and Technology, Dhanalakshmi Srinivasan University, Samayapuram, Tiruchirapalli, Tamilnadu, India ---------- ----------
6)Dr.S.Sandhiya
Address of Applicant :Assistant Professor, Department of Mathematics, Vels Institute of Science, Technology & Advanced Studies (VISTAS) Pallavaram, Chennai, Tamil Nadu, India ---------- ----------
7)S.Poongkodi
Address of Applicant :Assistant Professor, Department of Mathematics, Oasys Institute of Technology, Pulivalam, Trichy, Tamilnadu, India ---------- ----------
8)Dr.R.Ramkumar
Address of Applicant :Assistant Professor, Department of Electrical and Electronics Engineering, School of Engineering and Technology, Dhanalakshmi Srinivasan University, Samayapuram, Tiruchirapalli, Tamilnadu, India ---------- ----------

(57) Abstract :
The present invention introduces a novel mathematical model utilizing graph theory for the classification of biological entities. Traditional methods of biological classification often face challenges in handling the complexity and volume of biological data. In contrast, the proposed model represents biological entities as nodes and their relationships as edges in a graph structure. Various graph-based algorithms are employed to analyze the graph, facilitating accurate and efficient classification based on biological characteristics. The invention is exemplified by its application in classifying plant species using genetic data, demonstrating its potential to revolutionize biological classification methodologies across diverse domains. Accompanied Drawing [FIGS. 1-2]

No. of Pages : 22 No. of Claims : 10

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(22) Date of filing of Application :10/08/2024

(21) Application No.202441060545 A

(43) Publication Date : 16/08/2024

(54) Title of the invention : INTEGRATING POSITIVE PSYCHOLOGY AND MACHINE LEARNING FOR ENGLISH AS A FOREIGN LANGUAGE (EFL) STUDENTS' ACADEMIC PERFORMANCE IN HIGHER EDUCATION

(51) International classification	:G06Q0050200000, G09B0019060000, G09B0007000000, G09B0007020000, G09B0019000000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**

1)Dr. V.N.Sudheer

Address of Applicant :Associate Professor of English, School Of Liberal Studies, CMR University, Bangalore, Karnataka, India. ---------- ----------

2)Dr.A.A.Jayashree Prabhakar

3)Dr. J. V. Balasubramanian

4)Dr. N. Sinthuja

5)Dr.K.Bhavani

6)Dr.C.Manju

7)Cybele Aishwarya

8)Srianand Ganesh T

9)Dr.Vidhya.P

10)Dr. C. Raghavendrareddy

11)K Periannan

12)Dr. Anindita Chowdhury

Name of Applicant : NA

Address of Applicant : NA

(72)**Name of Inventor :**

1)Dr. V.N.Sudheer

Address of Applicant :Associate Professor of English, School Of Liberal Studies, CMR University, Bangalore, Karnataka, India. ---------- ----------

2)Dr.A.A.Jayashree Prabhakar

Address of Applicant :Associate Professor, Dept. of English, Vels Institute of Science, Technology And Advanced Studies (VISTAS), Pallavaram, Chennai-60017, Chengalpattu, Tamil Nadu, India. ---------- ----------

3)Dr. J. V. Balasubramanian

Address of Applicant :Associate Professor & Head, School Of Management, Cmr University (Lakeside Campus), Bagalur Main Road, Bengaluru, Karnataka, India. ---------- ----------

4)Dr. N. Sinthuja

Address of Applicant :Assistant Professor/Department Of English, Vels Institute Of Science, Technology And Advanced Studies, Chennai- 600 117, Tamil Nadu, India. ---------- ----------

5)Dr.K.Bhavani

Address of Applicant :Assistant Professor, English Shri Krishna Swamy College For Women Chennai 600040, Tamil Nadu, India. ---------- ----------

6)Dr.C.Manju

Address of Applicant :Assistant Professor, Department Of English, D.R.B.C.C.C Hindu College, Pattabiram, Chennai- 600072, Thiruvallur, Tamil Nadu, India. ---------- ----------

7)Cybele Aishwarya

Address of Applicant :Assistant Professor, Department of Languages, Hindustan Institute Of Science And Technology, No: 1: Rajiv Gandhi Salai, Padur-603103, Chengalpattu, Chennai, Tamil Nadu, India. ---------- ----------

8)Srianand Ganesh T

Address of Applicant :Assistant Professor, Department of EEE, St. Joseph'S College Of Engineering, Chennai, Tamil Nadu, India. ---------- ----------

9)Dr.Vidhya.P

Address of Applicant :Sri Ramakrishna College Of Arts &Science, Coimbatore, Tamil Nadu, India. ---------- ----------

10)Dr. C. Raghavendrareddy

Address of Applicant :Assistant Professor Of English (Sl) Department Of English, School Of Liberal Arts And Sciences, Mohan Babu University (Erstwhile Sree Vidyanikethan Engineering College), Tirupati, Andhra Pradesh, India. ---------- ----------

11)K Periannan

Address of Applicant :Assistant Professor of English, Department of English, Excel College for Commerce And Science, Komarpalayam. Pin Code: 637303, Namakkal, Tamil Nadu, India. ---------- ----------

12)Dr. Anindita Chowdhury

Address of Applicant :Assistant Professor, Department Of English, Kristu Jayanti College (Autonomous), K Narayanapura, Kothanur Post, Bangalore, Karnataka, India. ---------- ----------

(57) Abstract :

INTEGRATING POSITIVE PSYCHOLOGY AND MACHINE LEARNING FOR ENGLISH AS A FOREIGN LANGUAGE (EFL) STUDENTS' ACADEMIC PERFORMANCE IN HIGHER EDUCATION The method for the development of the field of positive psychology (PP) investigates how happy feelings can maximize performance. The current study attempted to incorporate PP into English as a foreign language teacher education program in order to evaluate its effects on the development of positivity among teachers and potential improvements in their instructional practice. This was done in response to a lack of research on the potential of PP in enhancing language teacher education. On a weekly basis, they were also required to submit reflections regarding the teaching they had received. The teachers developed positive emotions, engagement, relationships, meaning, and accomplishment, which led to their improved instructional practice, according to a thematic analysis of their reflections. Many instructors believe that their responsibility is restricted to creating lesson plans, providing in-class instruction, writing tests, grading assignments, and other paperwork, according to data from a sample of EFL and translation instructors and students. They stated that in EFL and translation and interpreting courses, students face numerous academic challenges. They continued by saying they had no idea what positive psychology is or how to incorporate its ideas into their classes. Social media answers and remarks from students revealed that they had a poor self-perception. FIG.1

No. of Pages : 14 No. of Claims : 1

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APPLICANT NAME	Dr. Aneetha A.S
TITLE OF INVENTION	GEOMETRIC STRUCTURE BASED FEATURE TRANSFORMATION FOR NETWORK ANOMALY DETECTION SYSTEM
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	gopinathit14@gmail.com
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Application Details	
APPLICATION NUMBER	202441070722
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DATE OF FILING	18/09/2024
APPLICANT NAME	1 . Dr. R. Padmini 2 . Dr. Vijay Wagh 3 . Dr. Gireesh V Puthusserry 4 . Dr. Geetha G 5 . Dr. Anilkumar K R 6 . Dr. Rekha G Nair 7 . Dr. Binu GS 8 . Dr. P.Jamuna Rani 9 . Dr. Sonal 10 . Dr. Dinesh Kumar Subbaraj
TITLE OF INVENTION	5G-SMART DIABETES: TOWARD PERSONALIZED DIABETES DIAGNOSIS WITH HEALTHCARE BIG DATA CLOUDS
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
E-MAIL (As Per Record)	patentpublucation@gmail.com

ADDITIONAL-EMAIL (As Per Record)	
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Application Status	
APPLICATION STATUS	**Awaiting Request for Examination**

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(19) INDIA

(22) Date of filing of Application :11/10/2024

(21) Application No.202441077129 A

(43) Publication Date : 25/10/2024

(54) Title of the invention : THE ROLE OF ARTIFICIAL INTELLIGENCE IN ENHANCING EFL LEARNING: PERSPECTIVES FROM HIGHER EDUCATION

(51) International classification	:G06Q0050200000, G09B0005060000, G09B0005020000, G09B0019000000, G09B0019060000
(86) International Application No Filing Date	:NA :NA
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(71)**Name of Applicant :**

1)Ms.Pratibha Pandey

Address of Applicant :Assistant Professor, CMR University, Bangalore-562149, Karnataka, India. ---------- ----------

2)Dr. A.A. Jayashree Prabhakar

3)Dr. N. Sinthuja

4)Dr. M. Nagalakshmi

5)Dr V Jaisre

6)Cybele Aishwarya

7)Srianand Ganesh T

8)Dr. Nirmala Devi M

9)P.Sumalatha

10)Naveen Kumar Mehta

11)Dr Dharmendra Mehta

12)Abhendra Pratap Singh

Name of Applicant : NA

Address of Applicant : NA

(72)**Name of Inventor :**

1)Ms.Pratibha Pandey

Address of Applicant :Assistant Professor, CMR University, Bangalore-562149, Karnataka, India. ---------- ----------

2)Dr. A.A. Jayashree Prabhakar

Address of Applicant :Professor, Department of English, Vels Institute of Science , Technology and Advanced Studies, (VISTAS), Pallavaram, Chennai- 600117, Chengalpattu, Tamilnadu, India. ---------- ----------

3)Dr. N. Sinthuja

Address of Applicant :Assistant Professor, Department of English, Vels Institute of Science, Technology and Advanced Studies, Chennai, Tamil Nadu, India. ---------- ----------

4)Dr. M. Nagalakshmi

Address of Applicant :Professor, Department of English, Vels Institute of Science, Technology and Advanced Studies, Chennai- 600117, Chengalpattu, Tamilnadu, India. ---------- ----------

5)Dr V Jaisre

Address of Applicant :Professor, Department of English,Vels Institute of Science, Technology and Advanced Studies, Pallavaram, Chennai- 600117, Chengalpattu, Tamilnadu, India. ---------- ----------

6)Cybele Aishwarya

Address of Applicant :Assistant Professor, Department of Languages, Hindustan Institute of Technology and Science, Chennai, Chengalpattu, Tamilnadu, India. ---------- ----------

7)Srianand Ganesh T

Address of Applicant :Assistant Professor, Department of EEE, St. Joseph's College of Engineering, OMR, Chennai- 627501, Chengalpattu, Tamilnadu, India. ---------- ----------

8)Dr. Nirmala Devi M

Address of Applicant :St.Martins Engineering College, Secunderabad, Medchal, Telangana, India. ---------- ----------

9)P.Sumalatha

Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, Annamacharya Institute of Technology and Sciences, Tirupati, Chittor, Andhra Pradesh, India. ---------- ----------

10)Naveen Kumar Mehta

Address of Applicant :Professor and Head, Department of English, Sanchi University of Buddhist-Indic Studies, Sanchi, Raisen, Madhya Pradesh, India. ---------- ----------

11)Dr Dharmendra Mehta

Address of Applicant :FM'S PTJNIBM, Ujjain, Madhya Pradesh, India. ---------- ----------

12)Abhendra Pratap Singh

Address of Applicant :Assistant Professor, Department of Mechanical Engineering, HMR Institute of Technology and Management, Delhi,110036, North west, India. ---------- ----------

(57) Abstract :

THE ROLE OF ARTIFICIAL INTELLIGENCE IN ENHANCING EFL LEARNING: PERSPECTIVES FROM HIGHER EDUCATION The method for the development of the role of artificial intelligence (AI) in enhancing English as a Foreign Language (EFL) learning in higher education. AI-powered tools, such as personalized learning platforms, intelligent tutoring systems, and natural language processing applications, offer innovative ways to improve students' language acquisition. These technologies provide tailored feedback, real-time assessments, and adaptive learning pathways, which cater to individual student needs, fostering greater engagement and proficiency. The integration of AI in EFL classrooms also supports teachers by automating administrative tasks and enabling data-driven insights into student progress. However, the study also addresses challenges, including the need for proper teacher training, ethical considerations, and equitable access to AI resources. Through a comprehensive review of existing literature and empirical studies, this research highlights the transformative potential of AI in EFL learning, while offering recommendations for effective implementation in higher education contexts. FIG.1

No. of Pages : 15 No. of Claims : 1

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(22) Date of filing of Application :16/10/2024

(21) Application No.202441078749 A

(43) Publication Date : 25/10/2024

(54) Title of the invention : ADVANCED IOT AND MACHINE LEARNING SOLUTIONS FOR SUSTAINABLE GROUNDWATER MANAGEMENT USING FUZZY-INTEGRAL N-TRANSFORM

(51) International classification :G06N0020000000, H04N0021443000, G06N0003088000, C02F0103060000, H04J0011000000

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Filing Date :NA

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Filing Date :NA

(71)**Name of Applicant :**

1)R.Ganesh

Address of Applicant :R.Ganesh, Assistant Professor, Department of AIML, ALVA`S Institute of Engineering and Technology, Shobhava Campus, Moodbidri-574225, DK, Mangalore Mangalore ---------- ----------

2)Dr A Ravitheja

3)Dr. D. S. Shelar

4)Dr. Priyadarshan Sham Ganvir

5)Dr. Ghanasham Chandrakant Sarode

6)Dr. Jean George

7)Subalakshmi. R

8)Dr. P.Agilan

9)Dr. Mahendrakumar Subramaniam

10)Dr. Murali Anumothu

11)Dr.Vishal Ratansing Patil

12)Dr. Abdul Rheem

Name of Applicant : NA

Address of Applicant : NA

(72)**Name of Inventor :**

1)R.Ganesh

Address of Applicant :R.Ganesh, Assistant Professor, Department of AIML, ALVA`S Institute of Engineering and Technology, Shobhava Campus, Moodbidri-574225, DK, Mangalore Mangalore ---------- ----------

2)Dr A Ravitheja

Address of Applicant :Associate Professors, Department of Civil Engineering, SVR Engineering College Nandyala ---------- ----------

3)Dr. D. S. Shelar

Address of Applicant :Assistant Professor, AISSMS Institute of Information Technology, Pune- 411001 pune ---------- ----------

4)Dr. Priyadarshan Sham Ganvir

Address of Applicant :Assistant Professor, Department of Geology, Mahatma Gandhi Arts, Science and Late N. P. Commerce College, Armori, Gadchiroli- 441208 Armori ---------- ----------

5)Dr. Ghanasham Chandrakant Sarode

Address of Applicant :Associate Professor, Department of Civil Engineering, Dr.D.Y.Patil Institute of Technology, Pimpri, Pune- 411018 pune ---------- ----------

6)Dr. Jean George

Address of Applicant :Assistant Professor, Department of Computer Science and Application, The Bhopal School of Social Science, Bhopal- 462024 Bhopal ---------- ----------

7)Subalakshmi. R

Address of Applicant :Assistant Professor, School of Law, VISTAS, Chennai - 600117 chennai ---------- ----------

8)Dr. P.Agilan

Address of Applicant :Associate Professor, Department of Mathematics, St Joseph's College of Engineering, OMR, Chennai- 600119 chennai ---------- ----------

9)Dr. Mahendrakumar Subramaniam

Address of Applicant :Professor, Department of Electronics and Communication Engineering, Velalar College of Engineering and Technology, Thindal, Erode- 638012 Thindal ---------- ----------

10)Dr. Murali Anumothu

Address of Applicant :Associate Professor, Department of ECE, QIS College of Engineering and Technology, Vengamukkapalem, Ongole Prakasam- 523272 Ongole ---------- ----------

11)Dr.Vishal Ratansing Patil

Address of Applicant :Associate Professor, Department of CSE(AIML), Vishwakarma Institute of Technology pune ---------- ----------

12)Dr. Abdul Rheem

Address of Applicant :Assistant Professor, Department of Mathematics, MMEC, Maharishi Markandeshwar (Deemed to be University), Mullana-Ambala, Haryana, India Ambala ---------- ----------

(57) Abstract :

Advanced IOT and Machine Learning Solutions for Sustainable Groundwater Management using Fuzzy-Integral N-Transform is the proposed invention. The proposed invention focuses on understanding the functions of Fuzzy-Integral N-Transform. The invention focuses on analyzing the parameters of Sustainable Groundwater Management using algorithms of IOT Approach.

No. of Pages : 12 No. of Claims : 3

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Department for Promotion of Industry and Internal Trade
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Government of India

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APPLICATION NUMBER	202441078753
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	16/10/2024
APPLICANT NAME	1 . Dr.Kiran.J 2 . Dr. Suhas. S 3 . Dr. Anuja Rane 4 . Dr. Vaishali Joshi 5 . Mr. Dexin Joyan 6 . Prof. Dr. Sailaja Petikam 7 . Dr.E.Venugopal 8 . Sneha S 9 . M.V.Ezhil Dyana 10 . Dr. R. Padmini
TITLE OF INVENTION	DETECTION OF CRIME SCENE OBJECTS FOR EVIDENCE ANALYSIS USING DEEP LEARNING TECHNIQUES
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	patentpublucation@gmail.com

ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
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Application Status	
APPLICATION STATUS	**Awaiting Request for Examination**

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Application Details	
APPLICATION NUMBER	202441071507
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	21/09/2024
APPLICANT NAME	1 . Dr. B. Muthukumaran 2 . Mrs. K. Mahalakshmi 3 . Ms. P. Ilakkiya 4 . Dr. S. Kiruthika 5 . Dr. V. Selvarani 6 . Dr. M . Priya 7 . Mr. D. Gopi Prasath
TITLE OF INVENTION	All-Solid-State Sodium-Ion Coin-Cell Battery
FIELD OF INVENTION	ELECTRICAL
E-MAIL (As Per Record)	muthukumaran9099@gmail.com
ADDITIONAL-EMAIL (As Per Record)	dr.muthukumaran@yahoo.com
E-MAIL (UPDATED Online)	
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(21) Application No.202441071507 A
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(54) Title of the invention : All-Solid-State Sodium-Ion Coin-Cell Battery

(51) International classification :H01M0010054000, H01M0010052500, H01M0010056200, H01M0004020000, H01M0004660000
(86) International Application No :NA
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(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
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Filing Date :NA

(71)**Name of Applicant :**
1)Dr. B. Muthukumaran
Address of Applicant :Associate Professor, Department of Chemistry, Presidency College (Autonomous), University of Madras, Chennai Pin: 600 005. State: Tamilnadu Country: India ---------- ----------
2)Mrs. K. Mahalakshmi
3)Ms. P. Ilakkiya
4)Dr. S. Kiruthika
5)Dr. V. Selvarani
6)Dr. M . Priya
7)Mr. D. Gopi Prasath
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)Dr. B. Muthukumaran
Address of Applicant :Associate Professor, Department of Chemistry, Presidency College (Autonomous), University of Madras, Chennai Pin: 600 005. State: Tamilnadu Country: India ---------- ----------
2)Mrs. K. Mahalakshmi
Address of Applicant :Research Scholar, Department of Chemistry, Presidency College (Autonomous), University of Madras, Chennai Pin: 600 005. State: Tamilnadu Country: India ---------- ----------
3)Ms. P. Ilakkiya
Address of Applicant :Project Associate/Research Scholar, Department of Chemistry, Presidency College (Autonomous), University of Madras, Chennai Pin: 600 005. State: Tamilnadu Country: India ---------- ----------
4)Dr. S. Kiruthika
Address of Applicant :Assistant Professor (SG), Department of Chemical Engineering, SRM Institute of Science and Technology, Kattankulathur, Chennai Pin: 603 203. State: Tamilnadu Country: India ---------- ----------
5)Dr. V. Selvarani
Address of Applicant :Associate Professor, Department of Chemistry St. Joseph's Institute of Technology, Old Mamallapuram Road, Chennai Pin: 600 119. State: Tamilnadu Country: India ---------- ----------
6)Dr. M . Priya
Address of Applicant :Assistant Professor, School of Basic Science, Department of Chemistry, Vels Institute of Science Technology and Advanced Studies, Pallavaram, Chennai-600 117 State: Tamilnadu Country: India ---------- ----------
7)Mr. D. Gopi Prasath
Address of Applicant :Post Graduate Student, Department of Chemistry, Presidency College (Autonomous), University of Madras, Chennai Pin: 600 005. State: Tamilnadu Country: India ---------- ----------

(57) Abstract :
All-Solid-State Sodium-Ion Coin-Cell Battery ABSTRACT: The current innovation pertains to energy storage technologies, particularly all-solid-state sodium-ion coin-cell batteries. This invention fulfils the demand for safer, more stable, and potentially higher energy density batteries by employing more available and cost-effective materials than conventional lithium-ion batteries.

No. of Pages : 6 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :27/09/2024

(21) Application No.202441073393 A

(43) Publication Date : 04/10/2024

(54) Title of the invention : IMPACT OF AI TECHNOLOGY ON BUSINESS MANAGEMENT SYSTEM

(51) International classification	:G06Q0010063100, G06Q0010063700, G06Q0030020200, G06Q0010060000, G06Q0010067000
(86) International Application No Filing Date	:NA :NA
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(61) Patent of Addition to Application Number Filing Date	:NA :NA
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(71)**Name of Applicant :**
1)Dr. P.VIJAYASHREE
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMMERCE, VELS INSTITUTE OF SCIENCE TECHNOLOGY AND ADVANCED STUDIES, CHENNAI 600117, TAMIL NADU Chennai ---------- ----------
2)Dr. SHASHILA.S
3)Dr. MOHANA PRIYA M
4)Dr. G.S.DHANASHREE
5)Dr. C.CHITRA
6)Dr. SWATHI PRADEEBA
7)Dr. A.KRISHNAN
8)Dr. MURUGESAN D
9)Dr. P VANITHA
10)Dr. H.KAMILAH BANU
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)Dr. P.VIJAYASHREE
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMMERCE, VELS INSTITUTE OF SCIENCE TECHNOLOGY AND ADVANCED STUDIES, CHENNAI 600117, TAMIL NADU Chennai ---------- ----------
2)Dr. SHASHILA.S
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMMERCE, VELS INSTITUTE OF SCIENCE TECHNOLOGY AND ADVANCED STUDIES, CHENNAI 600117, TAMIL NADU Chennai ---------- ----------
3)Dr. MOHANA PRIYA M
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMMERCE, VELS INSTITUTE OF SCIENCE TECHNOLOGY AND ADVANCED STUDIES, CHENNAI 600117, TAMIL NADU Chennai ---------- ----------
4)Dr. G.S.DHANASHREE
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMMERCE, VELS INSTITUTE OF SCIENCE TECHNOLOGY AND ADVANCED STUDIES, CHENNAI 600117, TAMIL NADU Chennai ---------- ----------
5)Dr. C.CHITRA
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMMERCE, VELS INSTITUTE OF SCIENCE TECHNOLOGY AND ADVANCED STUDIES, CHENNAI 600117, TAMIL NADU Chennai ---------- ----------
6)Dr. SWATHI PRADEEBA
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMMERCE, VELS INSTITUTE OF SCIENCE TECHNOLOGY AND ADVANCED STUDIES, CHENNAI 600117, TAMIL NADU Chennai ---------- ----------
7)Dr. A.KRISHNAN
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMMERCE, VELS INSTITUTE OF SCIENCE TECHNOLOGY AND ADVANCED STUDIES, CHENNAI 600117, TAMIL NADU Chennai ---------- ----------
8)Dr. MURUGESAN D
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMMERCE, VELS INSTITUTE OF SCIENCE TECHNOLOGY AND ADVANCED STUDIES, CHENNAI 600117, TAMIL NADU Chennai ---------- ----------
9)Dr. P VANITHA
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMMERCE, VELS INSTITUTE OF SCIENCE TECHNOLOGY AND ADVANCED STUDIES, CHENNAI 600117, TAMIL NADU Chennai ---------- ----------
10)Dr. H.KAMILAH BANU
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMMERCE, VELS INSTITUTE OF SCIENCE TECHNOLOGY AND ADVANCED STUDIES, CHENNAI 600117, TAMIL NADU Chennai ---------- ----------

(57) Abstract :
ABSTRACT IMPACT OF AI TECHNOLOGY ON BUSINESS MANAGEMENT SYSTEM Artificial Intelligence (AI) technology has become a buzzword in the business world, and its impact has been significant in India's business management systems. AI, also known as machine intelligence, is the simulation of human intelligence processes by machines, especially computer systems. This technology has revolutionized the way businesses are run, providing solutions and opportunities for growth and efficiency. One of the most significant impacts of AI technology on business management systems in India is automation. AI-powered automation has streamlined processes, reducing manual work and increasing efficiency. Tasks such as data entry, inventory management, and customer service can now be done by machines, freeing up time for employees to focus on more critical tasks. This has led to increased productivity and cost savings for businesses. AI technology has also enabled businesses to make data-driven decisions. With the advent of big data and analytics, machines can process and analyze vast amounts of data in a fraction of the time it would take a human. This has resulted in better insights and improved decision-making, ultimately leading to improved business performance. For example, AI-powered predictive analytics can help businesses forecast future trends, customer behavior, and demand, aiding in strategic planning and resource allocation. In India, AI technology has also played a significant role in improving customer experience and engagement. With chatbots and virtual assistants, businesses can provide 24/7 customer support and instant responses to queries, improving overall satisfaction. AI-powered recommendation engines can also personalize the customer experience, leading to higher sales and customer loyalty. Another impact of AI technology on business management systems is the rise of intelligent automation. This involves combining AI with robotics and other emerging technologies to create intelligent, self-learning systems. This has led to the development of smart factories, where machines can communicate and work with each other, optimizing production processes and improving quality control. However, the implementation of AI technology in business management systems in India also poses challenges. The biggest concern is job displacement, as machines take over tasks that were previously done by humans. It is crucial for businesses to have a well-planned strategy for upskilling and reskilling employees to ensure a smooth transition in the workplace. In conclusion, AI technology has had a significant impact on business management systems in India, leading to increased efficiency, better decision-making, and improved customer experience. As this technology continues to evolve, it is essential for businesses to embrace it and adapt to its changing landscape to stay competitive in the market.

No. of Pages : 12 No. of Claims : 10

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INTRODUCTION

In view of the recent amendment made in the Patents Act, 1970 by the Patents (Amendment) Act, 2005 effective from 01st January 2005, the Official Journal of The Patent Office is required to be published under the Statute. This Journal is being published on weekly basis on every Friday covering the various proceedings on Patents as required according to the provision of Section 145 of the Patents Act 1970. All the enquiries on this Official Journal and other information as required by the public should be addressed to the Controller General of Patents, Designs & Trade Marks. Suggestions and comments are requested from all quarters so that the content can be enriched.

(PROF. (DR) UNNAT P. PANDIT)
CONTROLLER GENERAL OF PATENTS, DESIGNS & TRADE MARKS

18th october, 2024

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CORRIGENDUM	**:**	**98135**
INTRODUCTION TO DESIGN PUBLICATION	**:**	**98136**
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KOLKATA, 18/10/2024
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2	The Patent Office, Government of India, Boudhik Sampada Bhavan, Near Antop Hill Post Office,S.M.Road,Antop Hill, Mumbai – 400 037 Phone: (91)(22) 24137701 Fax: (91)(22) 24130387 E-mail: mumbai-patent@nic.in ❖ The States of Gujarat, Maharashtra, Madhya Pradesh, Goa and Chhattisgarh and the Union Territories of Daman and Diu & Dadra and Nagar Haveli	5	The Patent Office (Head Office), Government of India, Boudhik Sampada Bhavan, CP-2, Sector –V, Salt Lake City, Kolkata- 700 091 Phone: (91)(33) 2367 1943/44/45/46/87 Fax: (91)(33) 2367 1988 E-Mail: kolkata-patent@nic.in ❖ Rest of India
3	The Patent Office, Government of India, Boudhik Sampada Bhavan, Plot No. 32., Sector-14, Dwarka, New Delhi – 110075 Phone: (91)(11) 25300200 & 28032253 Fax: (91)(11) 28034301 & 28034302 E.mail: delhi-patent@nic.in ❖ The States of Haryana, Himachal Pradesh, Jammu and Kashmir, Punjab, Rajasthan, Uttar Pradesh, Uttaranchal, Delhi and the Union Territory of Chandigarh.		

Website: www.ipindia.nic.in
www.patentoffice.nic.in

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Fees: The Fees may either be paid in cash or may be sent by Bank Draft or Cheques payable to the Controller of Patents drawn on a scheduled Bank at the place where the appropriate office is situated.

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कोलकाता, दिनांक 18/10/2024
कार्यालयों के क्षेत्राधिकार के पते

विभिन्न जगहों पर स्थित पेटेंट कार्यालय के पते आंचलिक आधार पर दर्शित उनके प्रादेशिक अधिकार क्षेत्र के साथ नीचे दिए गए है:-

1	कार्यालय : महानियंत्रक, एकस्व, अभिकल्प तथा व्यापार चिहन, एंटोप हिल डाकघर के समीप, एस. एम. रोड, एंटोप हिल, मुम्बई- 400 037, भारत, फोन: (91) (22) 24123311 फ़ैक्स: (91) (22) 24123322 ई. मेल: cgpdtm@nic.in	4	पेटेंट कार्यालय, भारत सरकार इंटेलेक्चुअल प्रॉपर्टी राइट्स बिल्डिंग, इंडस्ट्रियल इस्टेट एसआईडीसीओ आरएमडी गोडाउन एरिया एडजसेन्ट टु ईगल फ्लास्क, जी. एस. टी. रोड, गायन्डी चेन्नई - 600 032. फोन: (91)(44) 2250 2081-84 फ़ैक्स: (91)(44) 2250-2066 ई. मेल: chennai-patent@nic.in ❖ आन्ध्र प्रदेश, तेलंगाना, कर्नाटक, केरल, तमिलनाडु तथा पुडुचेरी राज्य क्षेत्र एवं संघ शासित क्षेत्र, लक्षदीप
2	पेटेंट कार्यालय, भारत सरकार बौद्धिक संपदा भवन, एंटोप हिल डाकघर के समीप, एस. एम. रोड, एंटोप हिल, मुम्बई- 400 037, फोन: (91) (22) 24137701 फ़ैक्स: (91) (22) 24130387 ई. मेल: Mumbai-patent@nic.in ❖ गुजरात, महाराष्ट्र, मध्य प्रदेश, गोवा तथा छत्तीसगढ़ राज्य क्षेत्र एवं संघ शासित क्षेत्र, दमन तथा दीव, दादर और नगर हवेली.	5	पेटेंट कार्यालय, भारत सरकार कोलकाता, (प्रधान कार्यालय) बौद्धिक संपदा भवन, सीपी-2, सेक्टर- V, साल्ट लेक सिटी, कोलकाता-700 091, भारत. फोन: (91)(33) 2367 1943/44/45/46/87 फ़ैक्स:/Fax: (91)(33) 2367 1988 ई. मेल: kolkata-patent@nic.in ❖ भारत का अवशेष क्षेत्र
3	पेटेंट कार्यालय, भारत सरकार बौद्धिक संपदा भवन, प्लॉट सं. 32, सेक्टर- 14, द्वारका, नई दिल्ली- 110 075. फोन: (91)(11) 25300200, 28032253 फ़ैक्स: (91)(11) 28034301, 28034302 ई. मेल: delhi-patent@nic.in हरियाणा, हिमाचल प्रदेश, जम्मू तथा कश्मीर, पंजाब,राजस्थान, उत्तर प्रदेश, दिल्ली तथा उत्तरांचल राज्य क्षेत्रों, एवं संघ शासित क्षेत्र चंडीगढ़		

वेबसाइट: http://www.ipindia.nic.in
www.patentoffice.nic.in

पेटेंट अधिनियम, 1970 तथा पेटेंट (संशोधन) अधिनियम, 2005 अथवा पेटेंट (संशोधन) नियम, 2006 द्वारा वांछित सभी आवेदन, सूचनाए, विवरण या अन्य दस्तावेज़ या कोई शुल्क पेटेंट कार्यालय के केवल उपयुक्त कार्यालय में स्वीकृत होंगे।

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(54) Title of the invention : Convergence of AI, Blockchain, and Quantum Computing for Ultra-Secure, Transparent, and Autonomous Supply Chain Ecosystems

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(71)**Name of Applicant :**
1)Dr R Durga
Address of Applicant :Associate Professor Department of Computer Science VISTAS Velan Nagar P.V. Vaithiyalingam Road Pallavaram, Chennai- 600117. durga.scs@vistas.ac.in Chennai ---------- ----------
2)Mrs S Prathima
3)Mr J Wessly
4)Mrs P Jeyanthi
5)Mr V R Siva
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)Dr R Durga
Address of Applicant :Associate Professor Department of Computer Science VISTAS Velan Nagar P.V. Vaithiyalingam Road Pallavaram, Chennai- 600117. durga.scs@vistas.ac.in Chennai ---------- ----------
2)Mrs S Prathima
Address of Applicant :Research Scholar Department of Computer Science VISTAS Velan Nagar P.V. Vaithiyalingam Road Pallavaram, Chennai- 600117. Chennai ---------- ----------
3)Mr J Wessly
Address of Applicant :Research Scholar Department of Computer Science VISTAS Velan Nagar P.V. Vaithiyalingam Road Pallavaram, Chennai- 600117. Chennai ---------- ----------
4)Mrs P Jeyanthi
Address of Applicant :Research Scholar Department of Computer Science VISTAS Velan Nagar P.V. Vaithiyalingam Road Pallavaram, Chennai- 600117. Pallavaram ---------- ----------
5)Mr V R Siva
Address of Applicant :Research Scholar Department of Computer Science VISTAS Velan Nagar P.V. Vaithiyalingam Road Pallavar0am, Chennai- 600117. q Pallavar0am ---------- ----------

(57) Abstract :
Conclusion: The convergence of AI, Blockchain, and Quantum Computing presents a revolutionary model for addressing the challenges of modern supply chains, delivering a system that is autonomous, transparent, and ultra-secure. The proposed solution not only enhances the efficiency of supply chain management but also future-proofs the ecosystem against emerging threats such as quantum cyberattacks. This invention provides an end-to-end framework capable of managing supply chains in a highly dynamic, decentralized, and secure environment.

No. of Pages : 8 No. of Claims : 5

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Application Details	
APPLICATION NUMBER	202441076278
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	08/10/2024
APPLICANT NAME	1 . C Mahesh 2 . Dr. Gaurav Srivastava 3 . Jasneet Kaur Kohli 4 . Dr P V Narendra Kumar 5 . N.Ramya 6 . Dr. Rishabh Dev Shukla 7 . Dr. Suneet Kumar 8 . Thiraviaselvi G 9 . Dr Jacob S 10 . Dr. Anup H `Gade
TITLE OF INVENTION	AI-Driven Smart Energy Metering System for Real-Time Consumption Analysis and Optimization Using IoT and Machine Learning Algorithms
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	senanipindia@gmail.com
ADDITIONAL-EMAIL (As Per Record)	editorsipofficial@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
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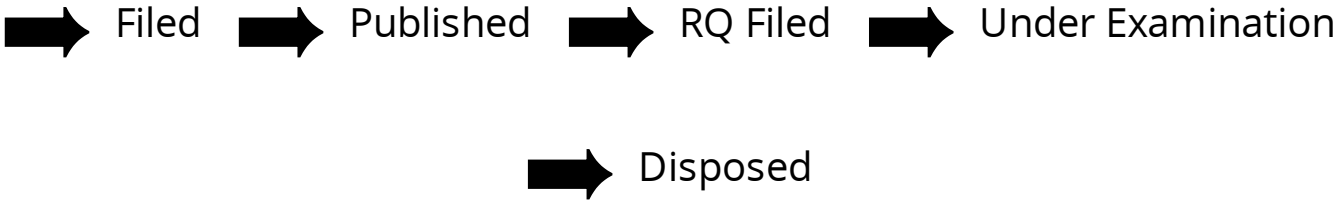
Application Status

APPLICATION STATUS	Awaiting Request for Examination

			View Documents



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Ministry of Commerce & Industry,
Government of India

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Application Details	
APPLICATION NUMBER	202441076981
APPLICATION TYPE	ORDINARY APPLICATION
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APPLICANT NAME	1 . Dr. A. Amutha Nandhini 2 . Dr. S. Premlatha 3 . Dr. A. Navitha Sulthana 4 . Dr. C. Arjunan 5 . Kowsalyadevi Ganeshan 6 . Dr. Charu Bisaria 7 . Dr. Rajendra Singh Negi 8 . Mr. Gaurav Tewari 9 . L. Saraladeve 10 . Dr. A. Babu
TITLE OF INVENTION	INVESTIGATING THE IMPACT OF INFLUENCER MARKETING ON PURCHASE INTENTIONS BASED ON THE BRAND VALUE OF PRODUCTS AND SERVICES
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	patentpublication@gmail.com
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Application Status	
APPLICATION STATUS	**Awaiting Request for Examination**

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Application Details	
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APPLICANT NAME	1 . Dr.S.Ayyappan 2 . Dr. P. Rajasekar 3 . Dr. Madhu Arora 4 . Mrs.P.Brindha 5 . Dr.Vimalarani Madhavan 6 . Vikyath Halgudde Keshava Murthy Gowda 7 . Ms.R.Saranya 8 . Mr. Yashaswi Dubey 9 . Ms.K.Kalaivani 10 . Sindhu S
TITLE OF INVENTION	Addressing Ethical Dilemmas in Small Business Management and Entrepreneurship
FIELD OF INVENTION	PHYSICS
E-MAIL (As Per Record)	patentpublucation@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
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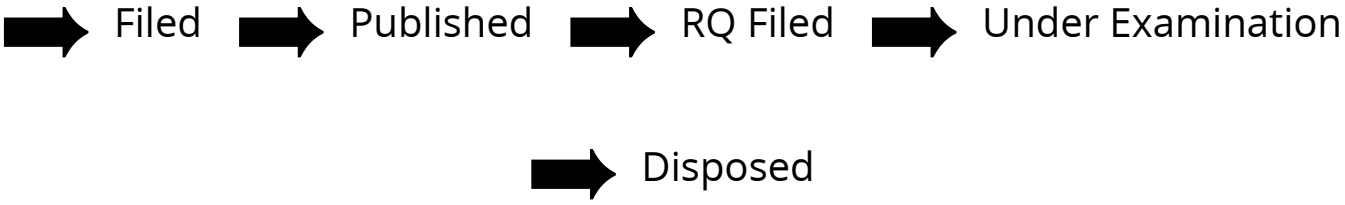

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FORM 2
THE PATENTS ACT, 1970

(39 OF 1970)

AND

THE PATENT RULES, 2003

COMPLETE SPECIFICATION

(See section 10 and rule 13)

Title of the Invention

Predictive Analytics in Employee Retention: A Machine Learning Perspective on HR Data

Applicant Name	Nationality	Address
Dr. S. Subramanian	**Indian**	Professor and HoD, Department of Maritime Commerce, Academy of Maritime Education and Training (AMET), Kanathur, Chennai, Tamil Nadu, Pin:603112 India
Dr. V. V. Ratheesh Kumar	**Indian**	Associate Professor, School of Law, Vels Institute of Science, Technology and Advanced Studies (VISTAS), Pallavaram, Chennai, Tamil Nadu, Pin:600117 India
Mrs. Esakkiammal S	**Indian**	Information Officer, Institute of Management, Nirma University, Sarkhej-Gandhinagar Highway, Gota, Tragad, Gujarat, Pin:382481

		India
Dr. T. Idhaya	**Indian**	Assistant Professor, Department of Computer Science, St. Xavier's College (Autonomous), Palayamkottai, Tirunelveli, Tamil Nadu, Pin 627002 India
Dr. SM Azizunisaa Begum	**Indian**	Associate Professor, School of Law, Vels Institute of Science, Technology and Advanced Studies (VISTAS), Pallavaram, Chennai, Tamil Nadu, Pin:600117 India
Dr. Ganesa Murthy A	**Indian**	Librarian, Vels Institute of Science, Technology and Advanced Studies (VISTAS), Pallavaram, Chennai, Tamil Nadu, Pin:600117 India
Dr. Gokulakrishnan A	**Indian**	Assistant Professor, Department of BBA, Vels Institute of Science, Technology and Advanced Studies (VISTAS), Pallavaram, Chennai, Tamil Nadu, Pin:600117 India
Mr. Jithin S	**Indian**	Assistant Professor, School of Law, Vels Institute of Science, Technology and Advanced Studies (VISTAS), Pallavaram, Chennai, Tamil Nadu, Pin:600117 India
Dr. Sivasankar V	**Indian**	Professor and Head, Department of Tamil, Vels Institute of Science, Technology and Advanced Studies (VISTAS), Pallavaram, Chennai, Tamil Nadu, Pin:600117 India

The following Specification particularly describes and ascertains the nature of this invention and the manner in which it is to be performed.

FIELD OF THE INVENTION:

[001]. The present disclosure is generally related to a smart bag that is helpful to the parents and school children with respect to monitoring, safety, and assistance**.**

BACKGROUND OF THE INVENTION:

[002]. The primary objective of this proposed work is to develop an innovative predictive analytics system tailored for employee retention, leveraging machine learning methodologies. The key goals of this research include:

[003]. Analyzing HR Data: To systematically examine various types of HR data, such as employee demographics, performance metrics, and tenure, in order to identify key factors that influence employee retention and turnover.

[004]. Developing Predictive Models: To design and implement machine learning models capable of predicting the likelihood of employee attrition. This involves selecting appropriate algorithms, such as decision trees, random forests, or gradient boosting machines, and training these models using historical data.

[005]. Identifying Retention Drivers: To utilize the predictive models to uncover significant drivers of employee retention. This includes understanding how different factors, such as job satisfaction, work environment, compensation, and career development opportunities, impact employee decisions to stay or leave.

[006]. Creating Actionable Insights: To provide actionable insights and recommendations based on the model's predictions. This includes developing strategies to address identified retention challenges and implementing measures to enhance employee satisfaction and loyalty.

[007]. Integrating with HR Systems: To ensure that the predictive analytics system can be seamlessly integrated with existing HR management systems. This integration will allow for real-time analysis and decision-making, facilitating timely interventions to prevent turnover.

[008]. Enhancing Decision-Making: To improve HR decision-making by providing data-driven insights and recommendations. This includes developing dashboards and visualization tools that present the predictive analytics results in an intuitive and accessible manner for HR professionals.

[009]. Evaluating Effectiveness: To assess the effectiveness of the predictive analytics system in reducing employee turnover. This involves monitoring retention rates before and after implementing the system and analyzing the impact on overall organizational performance.

[0010]. Ensuring Privacy and Compliance: To address privacy and data protection concerns by implementing robust data governance practices. This includes ensuring compliance with relevant regulations and safeguarding sensitive employee information.

[0011]. In summary, the objective is to harness machine learning techniques to provide HR departments with advanced

tools for predicting and improving employee retention. By addressing these goals, the proposed work aims to contribute to more effective HR management and a more engaged and stable workforce.

SUMMARY OF THE INVENTION:

[0012]. Employee retention is a critical challenge for organizations striving to maintain a skilled and motivated workforce. High turnover rates can lead to increased recruitment and training costs, decreased productivity, and disruption to team dynamics. To address this issue, predictive analytics has emerged as a powerful tool for anticipating employee attrition and implementing proactive retention strategies. This proposed work focuses on developing a machine learning-based predictive analytics framework specifically designed to enhance employee retention by analyzing HR data.

[0013]. Methodology: Data Collection and Preparation: The first step involves collecting and preparing relevant HR data, including employee demographics, performance reviews, job satisfaction surveys, compensation details, and tenure information.

[0014]. Feature Selection and Engineering: This involves identifying relevant features that contribute to employee retention and creating new features that may improve model performance. Techniques such as correlation analysis, principal

component analysis (PCA), and feature importance ranking will be employed to select and engineer features.

[0015]. Model Evaluation and Validation: Performance comparison across different algorithms will help identify the most effective model for predicting employee attrition. Additionally, model interpretability will be examined to provide insights into the factors driving predictions.

[0016]. Insights and Recommendations: The predictive models will be used to generate insights into the factors influencing employee retention. Key drivers of attrition will be identified, and actionable recommendations will be developed to address these factors. This may include suggestions for improving job satisfaction, enhancing career development opportunities, and revising compensation packages.

[0017]. Integration and Implementation: The predictive analytics framework will be integrated with existing HR management systems to enable real-time analysis and decision-making. This integration will facilitate the automation of retention strategies and provide HR professionals with timely alerts and recommendations. Visualization tools and dashboards will be developed to present predictive analytics results in an accessible and actionable format.

[0018]. Monitoring and Evaluation: The effectiveness of the predictive analytics system will be monitored by tracking changes in employee retention rates and overall organizational performance. Feedback from HR professionals will be collected to assess the usability and impact of the system. Continuous

improvement will be undertaken based on the evaluation results to enhance the system's effectiveness.

[0019]. The proposed work aims to revolutionize employee retention strategies by leveraging machine learning techniques to analyze HR data and predict employee attrition. By providing actionable insights and integrating predictive models with HR systems, this framework will enable organizations to implement proactive retention measures and foster a more stable and engaged workforce.

DETAILED DESCRIPTION OF THE INVENTION

[0020]. To mitigate these challenges, organizations are increasingly turning to predictive analytics and machine learning techniques to anticipate employee attrition and develop targeted retention strategies. This proposed work focuses on creating a comprehensive predictive analytics framework for employee retention, leveraging advanced machine learning algorithms to analyze HR data and provide actionable insights.

[0021]. Data Collection and Preparation: The foundation of any predictive analytics system is the quality and relevance of the data. For this proposed work, HR data will be collected from various sources, including employee records, performance reviews, job satisfaction surveys, compensation information, and tenure data. The data collection process will involve collaborating with HR departments to ensure access to comprehensive and accurate data.

[0022]. Once collected, the data will undergo a thorough cleaning and preprocessing phase. This includes handling missing values, standardizing data formats, and encoding categorical variables. Data cleaning is essential to ensure that the predictive models are trained on high-quality data, which is crucial for accurate predictions.

[0023]. This may include factors such as job satisfaction, performance ratings, compensation levels, and tenure. Feature engineering involves creating new features that may enhance model performance. Techniques such as correlation analysis and principal component analysis (PCA) will be employed to identify and engineer features that provide valuable insights into employee retention.

[0024]. Model Development: The core of the predictive analytics framework is the development of machine learning models capable of predicting employee attrition. Several machine learning algorithms will be evaluated for their effectiveness in this context. Algorithms such as decision trees, random forests, gradient boosting machines, and support vector machines will be considered.

[0025]. Insights and Recommendations: Once the predictive models are developed and validated, they will be used to generate insights into the factors influencing employee retention. The models will identify key drivers of attrition, such as job satisfaction, compensation, career development opportunities, and work environment.

[0026]. Based on these insights, actionable recommendations will be developed to address the identified factors. For example, if the model indicates that low job satisfaction is a significant driver of attrition, recommendations may include implementing employee engagement programs, improving workplace conditions, or providing more career development opportunities.

[0027]. Integration and Implementation: To maximize the impact of the predictive analytics framework, it will be integrated with existing HR management systems. This integration will enable real-time analysis and decision-making, allowing HR professionals to take timely action based on predictive insights.

[0028]. Visualization tools and dashboards will be developed to present the predictive analytics results in an intuitive and accessible format. These tools will provide HR professionals with actionable insights and recommendations, facilitating the implementation of targeted retention strategies.

[0029]. Monitoring and Evaluation: The effectiveness of the predictive analytics system will be monitored by tracking changes in employee retention rates and overall organizational performance. Key performance indicators (KPIs) such as turnover rates, employee satisfaction scores, and productivity metrics will be used to assess the impact of the system.

[0030]. Feedback from HR professionals will be collected to evaluate the usability and effectiveness of the system. Continuous improvement will be undertaken based on the feedback and evaluation results. This may involve refining the

predictive models, enhancing the visualization tools, or updating the recommendations based on new data.

[0031]. The proposed work aims to revolutionize employee retention strategies by leveraging machine learning techniques to analyze HR data and predict employee attrition. By providing actionable insights and integrating predictive models with HR systems, this framework will enable organizations to implement proactive retention measures and foster a more stable and engaged workforce. The successful implementation of this framework will contribute to improved employee satisfaction, reduced turnover costs, and enhanced organizational performance. The proposed framework is shown in figure 1.

WE CLAIM:

1. A system for predicting employee retention that integrates machine learning algorithms to analyze HR data and forecast employee attrition with high accuracy.

2. A method for identifying and selecting relevant features from HR data viz job satisfaction, compensation, and performance metrics, to improve predictive model performance comprising:

development of multiple machine learning models, including decision trees, random forests, and gradient boosting machines, for predicting employee turnover and evaluating their effectiveness;

real-time analysis and decision-making by integrating predictive models with existing HR management systems via a framework;

generating actionable insights and recommendations based on predictive analytics to address key drivers of employee attrition and improve retention strategies;

creation of intuitive visualization tools and dashboards that present predictive analytics results in an accessible format for HR professionals to facilitate decision-making; and

monitoring the effectiveness of the predictive analytics system by tracking changes in employee retention rates and overall organizational performance.

3. The system as claimed in claim 1 wherein system ensures data privacy and compliance with relevant regulations by implementing robust data governance practices and safeguarding sensitive employee information.

Dated this 21/10/2024

ABSTRACT

Predictive Analytics in Employee Retention: A Machine Learning Perspective on HR Data

The invention proposes a predictive analytics framework designed to enhance employee retention through advanced machine learning techniques applied to HR data. By integrating historical employee data and predictive models, the framework aims to identify patterns and factors influencing employee turnover. This approach not only improves retention strategies but also provides actionable insights for optimizing HR practices, thus contributing to a more stable and productive workforce.

FORM 2

THE PATENTS ACT, 1970
(39 of 1970)
&
THE PATENTS RULES, 2003
COMPLETE SPECIFICATION
(See sections 10; rule 13)

TITLE OF THE INVENTION

THE STRATEGIC IMPACT OF MACHINE LEARNING ON EMPLOYEE PERFORMANCE EVALUATION IN HUMAN RESOURCE MANAGEMENT

APPLICANT

NAME: DR. T. VETRIVEL

NATIONALITY: INDIA

ADDRESS: Professor & Head, Department of Management Studies, Velalar College of Engineering and Technology, Erode – 638012, Tamilnadu, India

THE STRATEGIC IMPACT OF MACHINE LEARNING ON EMPLOYEE PERFORMANCE EVALUATION IN HUMAN RESOURCE MANAGEMENT

Technical Field

[0001] The embodiments herein generally relate to a method for the strategic impact of machine learning on employee performance evaluation in human resource management.

Description of the Related Art

[0002] A notable driver of innovation in the ever-changing technological landscape is the integration of artificial intelligence (AI) into numerous industries. Human resources (HR) are being significantly impacted by artificial intelligence (AI). By using AI technologies, organizations can increase productivity, enhance HR practices, and improve decision-making processes. Both public and private businesses recognize the value of this process, and when looking at organizations that handle projects as an example, the significance of this field becomes even more crucial. Such a company must take extra care with the evaluation of senior project managers, a role that frequently lacks an appropriate evaluation tool, in addition to HRM, which is thought to be crucial to the success or failure of a particular project. A Novel Approach to Hiring and Assessing Employee Performance. Deep learning has demonstrated significant promise in hiring and performance reviews due to its quick development and ongoing shifts in the human resource management space.

[0003] According to Nikolaai, Sunder Pichai, the CEO of Google, stated that artificial intelligence is a fundamentally transformative method by which we are rethinking how we are doing everything. Artificial intelligence, also referred to as machine learning, is a broad field that simulates human skills and crafty behavior. "Learning to teach computers to do tasks that

humans are currently better at is the main goal of artificial intelligence research." "It can swiftly retrieve the database, obtain information, accurately answer our questions, and provide the optimal answer immediately and logically while simulating the information process of the human mind and reasoning." A number of competencies make up HRM. An assessment of these competencies aims to determine whether a worker possesses all the necessary skills for a particular job role. The research advancements in performance evaluation and employee recruitment received particular attention, and the benefits and drawbacks of deep learning in these domains were examined.

[0004] A key component of an organization's success is its capacity to use its human resources as a competitive advantage. Organizations can maximize these human resources by combining them with their operational capabilities. The fourth industrial revolution (I4.0) has caused a paradigm shift in business operations. Nonetheless, it necessitates the upskilling and integration of human resources with operations. Establishing the appropriate components to be assessed is essential for this process's success in order to guarantee a model that is trustworthy enough to manage it. It's also critical to realize that, most likely, a model of this kind may be able to meet the needs of various types of businesses. Strict data processing and scientific research design guarantee the validity and efficacy of studies. The research findings were presented, along with an analysis and discussion of the application impact of deep learning in hiring and performance reviews, in the Results and Discussion section. We have analyzed the possible benefits and drawbacks of deep learning in HRM, and we have put forward management recommendations and practical implications based on the theoretical framework and empirical research findings.

SUMMARY

[0001] In view of the foregoing, an embodiment herein provides a method for the strategic impact of machine learning on employee performance evaluation in human resource management. In some embodiments, wherein the HR employees can focus on other aspects of their work by using AI to help automate time-consuming administrative tasks. As a result, HR employees might be more productive, which would allow them to devote more of their attention to tasks that require their specific expertise. AI technologies, which can analyze vast amounts of data, identify patterns, and make predictions, may help HR teams make better informed and data-driven decisions. By integrating AI into HR, organizations can improve overall employee satisfaction, streamline processes, and boost productivity. Each of these areas alone is worth a complex study in its own right. In light of this, there are a good number of studies on each topic. Nonetheless, some of them offer concepts that can be utilized to bolster some of the ideas put forth in the process of being suggested in this paper, and as such, they ought to be mentioned in this section. Examine the drawbacks of conventional performance evaluation techniques as well as the advancements in deep learning in performance evaluation, including employee behavior prediction and performance analysis based on multi-source data.

[0002] In some embodiments, wherein to improve crucial talent engagement and retention, use AI to tailor outreach and HR initiatives to each individual's needs and preferences. This customization can help with all HR operations, such as suggesting reward and compensation packages, creating a network for new hires, and using automatic nudges to combat implicit bias. HR directors must carefully consider the risks of bias and ethical dilemmas associated with AI, despite its many potential benefits. Understanding AI's limitations is as important as appreciating its potential. A few different factors need to be taken

into account in the fuzzy logic study. The search for related work in this area had to be specifically focused in the domain of human resource management or employee performance evaluation because such a technique relies on rules, and these rules require at least a reasonable understanding of the problem domain. Build an application framework for deep learning in human resource management based on the theoretical underpinnings mentioned above.

[0003] In some embodiments, wherein reading artificial intelligence for HR: separating the potential from the hype will give HR and other business leaders a basic, nontechnical understanding of artificial intelligence and help them better understand what AI is and is not. With this knowledge, they are able to spot marketing-driven artificial intelligence (AI) hype and assess AI's potential effects on HR professionals' abilities in an unbiased manner. HR will be a more valued partner in identifying the optimal mix of people and technology to accomplish business goals if they are aware of the fundamentals of artificial intelligence. Fuzzy logic scripts play a significant part in this process by handling the self-evaluation factors in a unique manner and taking into account various regulations for every job role. By developing additional fuzzy scripts with a more intricate set of rules, integrating them into an information system, and eventually combining their output with other classification strategies, this paper builds on the work that has already been presented. Examine the importance and practical applications of research findings, such as how to enhance the accuracy of performance reviews and streamline the hiring process for new employees.

[0004] These and other aspects of the embodiments herein will be better appreciated and understood when considered in conjunction with the following description and the accompanying drawings. It should be understood, however, that the following descriptions, while indicating preferred embodiments and numerous specific details thereof, are given by

way of illustration and not of limitation. Many changes and modifications may be made within the scope of the embodiments herein without departing from the spirit thereof, and the embodiments herein include all such modifications.

BRIEF DESCRIPTION OF THE DRAWINGS

[0001] The embodiments herein will be better understood from the following detailed description with reference to the drawings, in which:

[0002] FIG. 1 illustrates a method for the strategic impact of machine learning on employee performance evaluation in human resource management according to an embodiment herein; and

[0003] FIG. 2 illustrates a method for sentiment analysis sub-processes according to an embodiment herein.

DETAILED DESCRIPTION OF PREFERRED EMBODIMENTS

[0001] The embodiments herein and the various features and advantageous details thereof are explained more fully with reference to the non-limiting embodiments that are illustrated in the accompanying drawings and detailed in the following description. Descriptions of well-known components and processing techniques are omitted so as to not unnecessarily obscure the embodiments herein. The examples used herein are intended merely to facilitate an understanding of ways in which the embodiments herein may be practiced and to further enable those of skill in the art to practice the embodiments herein. Accordingly, the examples should not be construed as limiting the scope of the embodiments herein.

[0002] FIG. 1 illustrates a method for the strategic impact of machine learning on employee performance evaluation in human resource management according to an

embodiment herein. In some embodiments, the human capital management is the strategic approach used by businesses to effectively manage and maximize their workforce. Among the processes it covers are hiring, onboarding, training and development, performance management, compensation and benefits, employee relations, and workforce planning. HR's primary goal is to maximize employees' value as invaluable assets in order to increase business productivity and competitiveness. Aspects pertaining to the application of text analysis in the context of human resource management are also presented. They offer a method for choosing team members based on the proximity of contextual sentiment. The study offers a method for using text analysis to identify subjectivity in teachers' performance. The work of, on the other hand, offers a text classification method that uses a genetic algorithm-based Bagging ensemble classifiers strategy. For organizations, the use of deep learning in performance evaluation offers fresh viewpoints and approaches. It can provide individualized performance feedback and incentive programs, as well as perform performance analysis and employee potential prediction using data from multiple sources. Advances in technology have made it possible for businesses to communicate in real time with their employees, customers, and stakeholders regardless of where they are in the world. This smooth communication has promoted improved teamwork and decision-making, which has led to better results in the end. Furthermore, data analysis is a key component of how technology affects organizational operations.

[0003] In some embodiments, a person's job position, commitment to their work and values, ability to identify technical, nontechnical, and strategic problems, task performance, professional attitude, initiative and innovative skills, engagement at work, interpersonal relationships, customer feedback, goals or the success of their actions as indicated by the quality of their products or services, and productivity as indicated by their company's

competitiveness in the market economy and economic indicators are some of the factors that go into evaluating them. The related works offer intriguing points to think about in this research, demonstrating things like the feasibility of using fuzzy logic to evaluate human resource performance and the applicability of sentiment analysis as a means of identifying elements that would be extremely challenging to observe when only a basic objective evaluation is taken into account. It can increase the organization's competitiveness and employee development opportunities by optimizing human resource allocation and decision-making processes, as well as the accuracy and efficiency of hiring and performance reviews. IoT deployment requires specific technical expertise, which may not be easily accessible internally. Organizations can work with IoT service providers or hire specialized staff to overcome this obstacle. Regulations pertaining to data privacy laws may also apply to IoT devices. Businesses can overcome this difficulty by making sure that their IoT devices comply with relevant laws and guidelines.

[0004] In some embodiments, the job position, commitment to work and values, ability to identify technical, nontechnical, and strategic problems, task performance, professional attitude, initiative and innovative skills, punctuality, attendance, engagement at work, interpersonal relationships, customer feedback, goals or the success of their actions as indicated by the quality of their products or services, and productivity as indicated by their company's competitiveness in the market economy and economic indicators are some of the factors that are used to evaluate individuals. the need to comprehend the expectations of the organization and its employees with regard to the implementation of such a process. Employees must understand the potential advantages and repercussions of such a process, and the organization must know how to handle the data gathered during the evaluation. There are

still certain obstacles and restrictions on the use of deep learning in HRM. For instance, the need for professional talent and deep learning technology, as well as concerns about data security and privacy. Numerous advantages result from the integration of IoT, including the ability to monitor and manage different aspects of organizational activities, such as the supervision of manufacturing equipment, resource allocation, and customer interactions. IoT deployment does, however, present some difficulties, such as worries about data security and privacy, incompatibilities, and the need for specialized knowledge to manage and examine the data produced by IoT devices.

[0005] FIG. 2 illustrates a method for sentiment analysis sub-processes according to an embodiment herein. In some embodiments, by integrating artificial intelligence (AI) into its HR department, IBM is setting the standard for a variety of tasks, including monitoring employee satisfaction, fostering communication, improving employee education, modifying and creating new job roles, and seeking out more top talent. Despite the controversy surrounding human-machine collaboration, the use of AI in HRM is still growing. The study highlights the need for an employee's performance review to take into account more than just qualitative and capacity factors. Aside from that, the employee's alignment with the company's mission, values, and viewpoints must also be assessed. Furthermore, it states that a basic evaluation model should take into account a number of variables, including the type of position the employee holds within the company. It offers a fresh perspective and strategies for enhancing the efficiency of hiring new staff members and assessing their work using deep learning technology. This study does, however, have certain drawbacks, including issues with data reliability and sample size. Future studies can address the difficulties and issues in applying deep learning, as well as investigate the application effects of deep learning in various

industries and organizational types. The study found a number of implementation barriers, including staff resistance to change, a lack of technical expertise, difficulties integrating with current systems, difficulties setting priorities for tasks, and inadequate funding for training initiatives, and incomplete or erroneous customer data.

[0006] In some embodiments, the ensemble classification is a general meta-machine learning method that combines the predictions from numerous models. A group of classification algorithms is a collection of classifiers that combine their individual results to produce a consensus decision. The primary objective of this approach is to aggregate the outputs of predefined models, also known as base classifiers, to produce a single output that performs better than each basis classifier separately. The process of creating a classifier ensemble begins with a set of base classifiers. When comparing the public and private sectors, there are some similarities and some significant differences. High-ranking employees, typically associated with management roles, are frequently required to present results to their superiors or, in certain situations, the general public. In these situations, employees must continuously demonstrate their value for the position they hold, even though the public sector typically does not aim for financial gain. As a result, they have similar expectations for this process as their private sector counterparts. Purposive sampling was used to choose the interview subjects in order to guarantee representation from a range of organizational settings and industries. Thematic analysis, which involved finding recurrent themes and patterns in the interview transcripts, was used to examine the qualitative data.

[0007] In some embodiments, finding intriguing and complex patterns or information in unstructured text documents is known as text mining. It could be seen as a development in knowledge discovery from (structured) databases or data mining. Numerous factors are taken

into consideration by fuzzy logic, which also offers a more straightforward method of performing the combined calculation based on given norms—something that is difficult to accomplish with the traditional approach. This problem could be easily solved by fuzzy rule-based decision making. Another method is to create a model in which the overall performance index of an employee is calculated by rating their performance according to evaluation scales for a few specified factors. The process by which an employee is assessed by their hierarchical superior is likely the most common and straightforward type of evaluation. In that scenario, the superior assesses the staff members under his supervision. It is crucial to keep in mind that in that scenario, a superior also evaluates the manager. Because of its ability to accurately predict non-linear relationships and promote quick network convergence, the non-linear sigmoid function was selected as the activation function, also known as the hypothesis function. The gradient descent algorithm was used to optimize the error function during the training phase. The input data was first normalized to improve the ANN's accuracy and convergence, and the final results were then denormalized to make sure they were within the acceptable range.

CLAIMS

I/We Claim:

1. A method for the strategic impact of machine learning on employee performance evaluation in human resource management, wherein the method comprises;

predicting the efficiency of photocatalytic wastewater treatment, providing insights into optimal reaction conditions;

evaluating employee performance based on data-driven insights rather than subjective judgment;

analyzing large datasets, ML can uncover patterns in employee performance over time, helping HR identify strengths and areas for improvement across different roles;

personalizing development, HR can strategically improve employee satisfaction, retention, and skill alignment with organizational goals;

predicting support strategic decisions on succession planning and career progression paths;

allowing HR professionals to focus more on high-value tasks like employee engagement and strategic development;

implementing continuous performance tracking and feedback systems, allowing employees to receive timely, actionable insights;

evaluating align employee performance metrics with broader organizational objectives by linking individual contributions to team and company goals;

monitoring performance data to ensure diversity, equity, and inclusion in evaluations, tracking trends across gender, ethnicity, and other demographics; and

predicting turnover risks based on performance and engagement trends, ML supports proactive retention strategies.

Dated this, 02nd November, 2024.

Signature

ABSTRACT

THE STRATEGIC IMPACT OF MACHINE LEARNING ON EMPLOYEE PERFORMANCE EVALUATION IN HUMAN RESOURCE MANAGEMENT

The method for the development of the artificial intelligence in real time in addition to providing instant rewards and recognition for excellent work, AI-driven evaluations guarantee accuracy all along the way and raise an alert if deadlines are missed or performance standards are dropping. Artificial intelligence significantly and favorably affects the HR function of employee performance evaluation, according to a thorough review of the literature. In essence, the human resource performance evaluation is a routine review and assessment of an employee's work performance. Depending on the employee's job type, the company's politics, and the business sector, there are various ways to conduct this evaluation. By increasing the precision and effectiveness of hiring and evaluating candidates, streamlining decision-making procedures, and boosting organizational competitiveness and employee development opportunities, the use of deep learning in HRM improves organizational performance and employee development.

FIG.1

Welcome Kalaimathi Sign out

Controller General of Patents, Designs & Trade Marks
G.S.T. Road, Guindy, Chennai-600032
Tel No. (091)(044) 22502081-84 Fax No. 044 22502066
E-mail: chennai-patent@nic.in
Web Site: www.ipindia.gov.in

सत्यमेव जयते

INTELLECTUAL PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

G.A.R.6
[See Rule 22(1)]
RECEIPT

Docket No 132926 **Date/Time 2024/11/05 10:22:46**

To
Kalaimathi

UserId: VIP.kalai

6/1, vadasithur post, kinathukadavu,
Coimbatore - 641202

CBR Detail:

Sr. No.	App. Number	Ref. No./Application No.	Amount Paid	C.B.R. No.	Form Name	Remarks
1	E-12/16776/2024/CHE	202441084377	2500	66639	FORM 9	
2	202441084377	TEMP/E-1/97456/2024-CHE	1600	66639	FORM 1	THE STRATEGIC IMPACT OF MACHINE LEARNING ON EMPLOYEE PERFORMANCE EVALUATION IN HUMAN RESOURCE MANAGE

TransactionID	Payment Mode	Challan Identification Number	Amount Paid	Head of A/C No
N-0001532489	Online Bank Transfer	0511240004158	4100.00	1475001020000001

Total Amount : ₹ 4100.00
Amount in Words: Rupees Four Thousand One Hundred Only

Received from Kalaimathi the sum of ₹ 4100.00 on account of Payment of fee for above mentioned Application/Forms.
* This is a computer generated receipt, hence no signature required.

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FORM 9

THE PATENT ACT, 1970
(39 of 1970)
&
THE PATENTS RULES, 2003

REQUEST FOR PUBLICATION

[See section 11A (2) rule 24A]

I/We **DR. T. VETRIVEL, DR. B. V. RAMANA, MOHD YOUNIS RATHER, B. SANDHIYA, DR. MAHESH ASHOK BOMBLE,R. VEERAPPAN, DR. B.VASAVI, DR. PRAMOD GUPTA, JAMPA NAGENDRA RAO, ANVESH PERADA, DR ASHOK KUMAR KATTA, CHANDRA BABU J** hereby request for early publication of my/our Patent Application.

Dated **02/11/2024 00:00:00** under section 11A (2) of the Act.

Dated this (Final Payment Date): ----------
--

Signature
Name of the signatory

To,
The Controller of Patents,
The Patent Office,
At Chennai

FORM 1 THE PATENTS ACT 1970 (39 of 1970) and THE PATENTS RULES, 2003 **APPLICATION FOR GRANT OF PATENT** (See section 7, 54 and 135 and sub-rule (1) of rule 20)	(FOR OFFICE USE ONLY)

	Application No.	
	Filing date:	
	Amount of Fee paid:	
	CBR No:	
	Signature:	

1. APPLICANT'S REFERENCE / IDENTIFICATION NO. (AS ALLOTTED BY OFFICE)	

2. TYPE OF APPLICATION [Please tick (✓) at the appropriate category]

Ordinary (✓)		Convention ()		PCT-NP ()	
0Divisional ( )	Patent of Addition ()	Divisional ( )	Patent of Addition ()	Divisional ( )	Patent of Addition ()

3A. APPLICANT(S)

Name in Full	Nationality	Country of Residence	Address of the Applicant
1. Dr. T. Vetrivel	Indian	India	Professor & Head, Department of Management Studies, Velalar College of Engineering and Technology, Erode – 638012, Tamilnadu, India.
2. Dr. B. V. Ramana	Indian	India	Professor & Dean, Information Technology, Aditya Institute of Technology and Management, Tekkali-532201, Srikakulam, Andhra Pradesh, India.
3. Mohd Younis Rather	Indian	India	PhD in Business Analytics, Glocal University, Sahranpur- 247121 Uttar Pradesh, India.
4.B.Sandhiya	Indian	India	Assistant Professor, Department of CSE, Sathyabama Institute of Science and Technology, Chennai- 600119 Kanchipuram, Tamilnadu, India.
5. Dr. Mahesh Ashok Bomble	Indian	India	Assistant Professor, SBSPM's Adhalrao Patil Institute of Management and Research, Pune, Maharashtra, India.
6.R. Veerappan			Associate Dean &Head, Department of

	Indian	India	Business Administration, Sacred Heart College, Tirupattur, Tamilnadu, India.
7. Dr. B.Vasavi	Indian	India	Associate Professor, Department of Science and Humanities, NBKR Institute of Science and Technology, Vidyanagar, Tirupathi, Andhra Pradesh, India.
8. Dr. Pramod Gupta	Indian	India	Professor, Department of Management Studies, Modern Institute of Technology & Research Centre, Alwar, Rajasthan-301028, India.
9. Jampa Nagendra Rao	Indian	India	Department Of Commerce and Management Studies, College Of Arts And Commerce, Andhra University, Visakhapatnam, Andhra Pradesh-530003 India.
10. Anvesh Perada	Indian	USA	Student (MS in Computer Engineering), Department of Electrical and Computer Engineering, Drexel University, Philadelphia, Pennsylvania, USA- 19104
11. Dr Ashok Kumar Katta	India	India	Professor, Dept of Business Administration, VELS Institute of Science, Technology, and Advanced Studies (VISTAS), Old Pallavaram, Chennai, 600117 Chengalpattu, TamilNadu, India.
12. Chandra Babu J	India	India	Assistant Professor, Department of Computer Science and Engineering, Annamacharya Institute of Technology and science, Tirupati- 517520, Andhra Pradesh, India.

3B. CATEGORY OF APPLICANT [Please tick (✓) at the appropriate category]			
Natural Person (✓)	Other than Natural Person		
	Small Entity ()	Startup ()	Others ()

4. INVENTOR(S) [Please tick (✓) at the appropriate category]		
Are all the inventor(s) same as the applicant(s) named above?	Yes (✓)	No ()

If "No", furnish the details of the inventor(s)

Name in Full	Nationality	Country of Residence	Address of the Inventor
Same as Applicant			

5. TITLE OF THE INVENTION		
"THE STRATEGIC IMPACT OF MACHINE LEARNING ON EMPLOYEE PERFORMANCE EVALUATION IN HUMAN RESOURCE MANAGEMENT"		
6. AUTHORISED REGISTERED PATENT AGENT(S)	IN/PA No.	
	Name	
	Mobile No.	
7. ADDRESS FOR SERVICE OF APPLICANT IN INDIA	Name	Vaagai IP
	Postal Address	Vadasithur, Kinathukadavu, Coimbatore - 641202, India
	Telephone No.	
	Mobile No.	9842768170
	Fax No.	
	E-mail ID	patent.vaagaiip@gmail.com

~~8. IN CASE OF APPLICATION CLAIMING PRIORITY OF APPLICATION FILED IN CONVENTION COUNTRY, PARTICULARS OF CONVENTION APPLICATION~~

~~Country~~	~~Application Number~~	~~Filing date~~	~~Name of the applicant~~	~~Title of the invention~~	~~IPC (as classified in the convention country)~~

~~9. IN CASE OF PCT NATIONAL PHASE APPLICATION, PARTICULARS OF INTERNATIONAL APPLICATION FILED UNDER PATENT CO-OPERATION TREATY (PCT)~~

~~International application number~~	~~International filing date~~

~~10. IN CASE OF DIVISIONAL APPLICATION FILED UNDER SECTION 16, PARTICULARS OF ORIGINAL (FIRST) APPLICATION~~

~~Original (first) application No.~~	~~Date of filing of original (first) application~~

~~11. IN CASE OF PATENT OF ADDITION FILED UNDER SECTION 54, PARTICULARS OF MAIN APPLICATION OR PATENT~~

~~Main application/patent No.~~	~~Date of filing of main application~~

12. DECLARATIONS

(i) Declaration by the inventor(s)

(**In case the applicant is an assignee**: the inventor(s) may sign herein below or the applicant may upload the assignment or enclose the assignment with this application for patent or send the assignment by post/electronic transmission duly authenticated within the prescribed period).

I/We, the above-named inventor(s) is/are the true & first inventor(s) for this Invention and declare that the applicant(s) herein is/are my/our assignee or legal representative.

(a) Date 02/11/2024

(b) Name	(c) Signature
1. Dr. T. Vetrivel 2. Dr. B. V. Ramana 3. Mohd Younis Rather 4. B. Sandhiya 5. Dr. Mahesh Ashok Bomble 6. R. Veerappan 7. Dr. B.Vasavi 8. Dr. Pramod Gupta 9. Jampa Nagendra Rao 10. Anvesh Perada 11. Dr Ashok Kumar Katta 12. Chandra Babu J	

~~**(ii) Declaration by the applicant(s) in the convention country**~~

~~**(In case the applicant in India is different than the applicant in the convention country:** the applicant in the convention country may sign herein below or applicant in India may upload the assignment from the applicant in the convention country or enclose the said assignment with this application for patent or send the assignment by post/electronic transmission duly authenticated within the prescribed period)~~

~~I/We, the applicant(s) in the convention country declare that the applicant(s) herein is/are my/our assignee or legal representative.~~

~~(a) Date~~

~~(b) Signature(s)~~

~~(c) Name(s) of the signatory~~

(iii) Declaration by the applicant(s)

I/We the applicant(s) hereby declare(s) that: -

- ~~I am/~~ We are in possession of the above-mentioned invention.
- The ~~provisional~~/complete specification relating to the invention is filed with this application.

- ☐ The invention as disclosed in the specification uses the biological material from India and the necessary permission from the competent authority shall be submitted by me/us before the grant of patent to me/us.
- ☐ There is no lawful ground of objection(s) to the grant of the Patent to me/us.
- ☐ I am/we are the true & first inventor(s).
- ☐ I am/we are the assignee or legal representative of true & first inventor(s).
- ☐ The application or each of the applications, particulars of which are given in Paragraph-8, was the first application in convention country/countries in respect of my/our invention(s).
- ☐ I/We claim the priority from the above mentioned application(s) filed in convention country/countries and state that no application for protection in respect of the invention had been made in a convention country before that date by me/us or by any person from which I/We derive the title.
- ☐ My/our application in India is based on international application under Patent Cooperation Treaty (PCT) as mentioned in Paragraph-9.
- ☐ The application is divided out of my /our application particulars of which is given inParagraph-10 and pray that this application may be treated as deemed to have been filed on DD/MM/YYYY under section 16 of the Act.
- ☐ The said invention is an improvement in or modification of the invention particulars of which are given in Paragraph-11.

13. FOLLOWING ARE THE ATTACHMENTS WITH THE APPLICATION

(a) Form 2

Item	Details	Fee	Remarks
Complete/ Provisional specification) #	No. of pages: 11		
No. of Claim(s)	No. of claims: 01 No. of pages: 01		
Abstract	No. of pages: 01		
No. of Drawing(s)	No. of drawings:02 No. of pages: 02		

In case of a complete specification, if the applicant desires to adopt the drawings filed with his provisional specification as the drawings or part of the drawings for the complete specification under rule 13(4), the number of such pages filed with the provisional specification are required to be mentioned here.

(b) Complete specification (in conformation with the international application)/as amended before the International Preliminary Examination Authority (IPEA), as applicable (2 copies).

(c) Sequence listing in electronic form

(d) Drawings (in conformation with the international application)/as amended before the

International Preliminary Examination Authority (IPEA), as applicable (2 copies).

(e) Priority document(s) or a request to retrieve the priority document(s) from DAS (Digital Access Service) if the applicant had already requested the office of first filing to make the priority document(s) available to DAS.

(f) Translation of priority document/Specification/International Search Report/International Preliminary Report on Patentability.

(g) Statement and Undertaking on Form 3

(h) Declaration of Inventorship on Form 5

(i)Power of Authority

(j)**Total fee ₹…….in Cash/ Banker's Cheque /Bank Draft bearing No.....**
Date on.....Bank.

I/We hereby declare that to the best of my/our knowledge, information and belief the fact and matters slated herein are correct and I/We request that a patent may be granted to me/us for the said invention.

Dated this 02nd day of November, 2024

Signature:
Name: Dr. T. Vetrivel

To,

The Controller of Patents

The Patent Office, at Chennai

Note: -

* Repeat boxes in case of more than one entry.
* To be signed by the applicant(s) or by authorized registered patent agent otherwise where mentioned.
* Tick ()/cross (x) whichever is applicable/not applicable in declaration in paragraph-12.
* Name of the inventor and applicant should be given in full, family name in the beginning.
* Strike out the portion which is/are not applicable.
* For fee: See First Schedule";

FORM- 5
THE PATENTS ACT, 1970
(39 of 1970)
&
The Patents Rules, 2003 DECLARATION AS TO INVENTORSHIP
[See Section 10(6) and Rule 13(6)]

1. NAME OF THE APPLICANT(S)

I/We Dr. T. Vetrivel, all are citizen of India, Address of one of the Applicant: Professor & Head, Department of Management Studies, Velalar College of Engineering and Technology, Erode – 638012, Tamilnadu, India.

hereby declare that the true and first inventor(s) of the invention disclosed in the complete specification filed in pursuance of ~~my~~ / our application numbered _____dated 02/11/2024 ~~is~~/are

2. INVENTOR(S)

(a) NAME	**(b) NATIONALITY**	**(c) ADDRESS**
1. Dr. T. Vetrivel	Indian	Professor & Head, Department of Management Studies, Velalar College of Engineering and Technology, Erode – 638012, Tamilnadu, India.
2. Dr. B. V. Ramana	Indian	Professor & Dean, Information Technology, Aditya Institute of Technology and Management, Tekkali-532201 Srikakulam, Andhra Pradesh, India.
3. Mohd Younis Rather	Indian	PhD in Business Analytics, Glocal University, Sahranpur- 247121 Uttar Pradesh, India.
4.B.Sandhiya	Indian	Assistant Professor, Department of CSE, Sathyabama Institute of Science and Technology, Chennai- 600119 Kanchipuram, Tamilnadu, India.
5. Dr. Mahesh Ashok Bomble	Indian	Assistant Professor, SBSPM's Adhalrao Patil Institute of Management and Research, Pune, Maharashtra, India.
6.R. Veerappan	Indian	Associate Dean &Head, Department of Business Administration, Sacred Heart College, Tirupattur, Tamilnadu, India.
7. Dr. B.Vasavi	Indian	Associate Professor, Department of Science and Humanities, NBKR Institute of Science and Technology, Vidyanagar, Tirupathi, Andhra Pradesh, India.

8. Dr. Pramod Gupta	Indian	Professor, Department of Management Studies, Modern Institute of Technology & Research Centre, Alwar, Rajasthan-301028, India.
9. Jampa Nagendra Rao	Indian	Department Of Commerce And Management Studies, College Of Arts And Commerce, Andhra University, Visakhapatnam, Andhra Pradesh-530003, India.
10. Anvesh Perada	Indian	Student (MS in Computer Engineering), Department of Electrical and Computer Engineering, Drexel University, Philadelphia, PA, USA- 19104 Pennsylvania, India.
11. Dr Ashok Kumar Katta	Indian	Professor, Dept of Business Administration, VELS Institute of Science, Technology, and Advanced Studies (VISTAS), Old Pallavaram, Chennai, 600117 Chengalpattu, TamilNadu, India.
12. Chandra Babu J	Indian	Assistant Professor, Department of Computer Science and Engineering, Annamacharya Institute of Technology and Science, Tirupati- 517520, Andhra Pradesh, India.

~~3. DECLARATION TO BE GIVEN WHEN THE APPLICATION IN INDIA IS FILED BY THE APPLICANT(S) IN THE CONVENTION COUNTRY: -~~

N.A.

~~We the applicant(s) in the convention country hereby declare that our right to apply for a patent in India is by way of assignment from the true and first inventor(s).~~

Dated this 02nd day of November 2024

Dr. T. Vetrivel
Applicant(s)

To,
The Controller of Patents
The Patent Office, Chennai.

APPLICANT: DR. T. VETRIVEL, DR. B. V. RAMANA, MOHD YOUNIS RATHER, B. SANDHIYA, DR. MAHESH ASHOK BOMBLE,R. VEERAPPAN, DR. B.VASAVI, DR. PRAMOD GUPTA, JAMPA NAGENDRA RAO, ANVESH PERADA, DR ASHOK KUMAR KATTA, CHANDRA BABU J

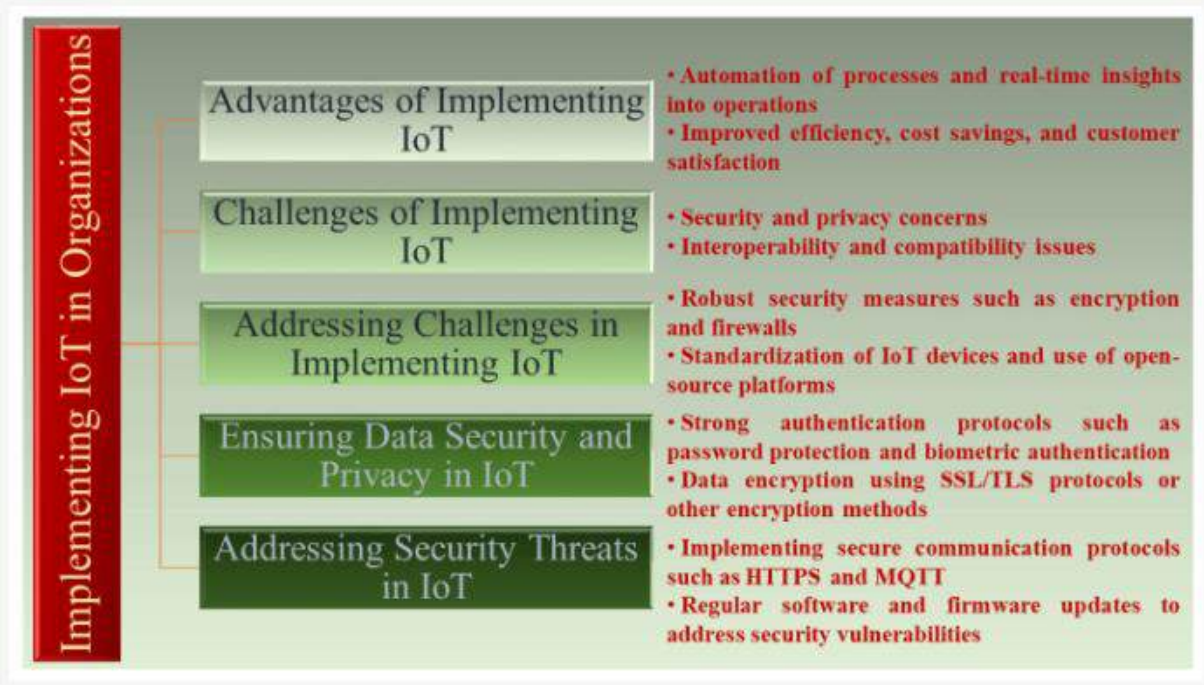


FIG.1

APPLICANT: DR. T. VETRIVEL, DR. B. V. RAMANA, MOHD YOUNIS RATHER, B. SANDHIYA, DR. MAHESH ASHOK BOMBLE,R. VEERAPPAN, DR. B.VASAVI, DR. PRAMOD GUPTA, JAMPA NAGENDRA RAO, ANVESH PERADA, DR ASHOK KUMAR KATTA, CHANDRA BABU J

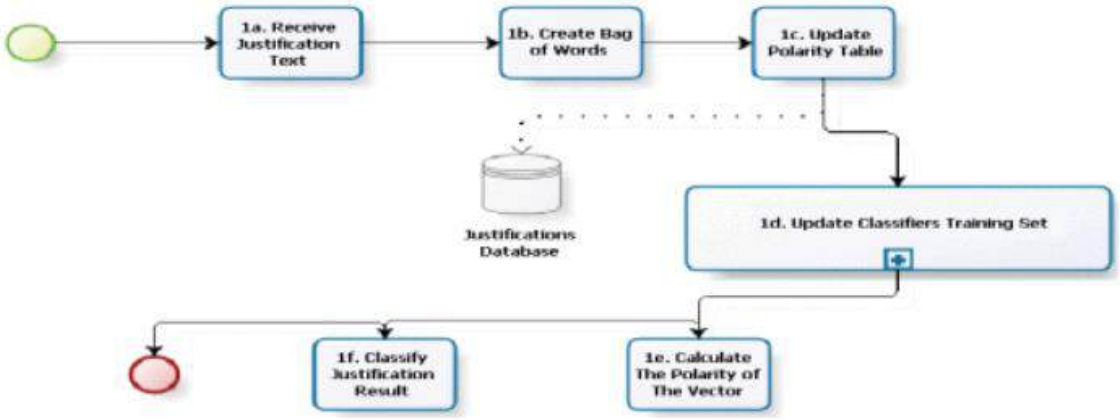


FIG.2.

FORM 26

THE PATENT ACT, 1970
(39 OF1970)
&
FORM FOR AUTHORISATION OF A PATENT AGENT/OR ANY PERSON IN A MATTER OR PROCEEDING UNDER THE ACT [See sections 127 and 132; rule 135]

We, 1. Dr. T. Vetrivel having address at Professor & Head, Department of Management Studies, Velalar College of Engineering and Technology, Erode – 638012, Tamilnadu, India, 2. Dr. B. V. Ramana having address at Professor & Dean, Information Technology, Aditya Institute of Technology and Management, Tekkali- 532201, Srikakulam, Andhra Pradesh, India, 3. Mohd Youni Rather having address at PhD in Business Analytics, Glocal University, Sahranpur- 247121, Uttar Pradesh, India, 4. B.Sandhiya having address at Assistant Professor, Department of CSE, Sathyabama Institute of

Science and Technology, Chennai- 600119 Kanchipuram, Tamilnadu, India, 5. Dr. Mahesh Ashok Bomble having address at Assistant Professor, SBSPM's Adhalrao Patil Institute of Management and Research, Pune, Maharashtra, India, 6. R. Veerappan having address at Associate Dean &Head, Department of Business Administration, Sacred Heart College, Tirupattur, Tamilnadu, India, 7. Dr. B.Vasavi having address at Associate Professor, Department of Science and Humanities, NBKR Institute of Science and Technology, Vidyanagar, Tirupathi, Andhra Pradesh, India, 8. Dr. Pramod Gupta having address at Professor, Department of Management Studies, Modern Institute of Technology & Research Centre, Alwar, Rajasthan- 301028, India, 9. Jampa Nagendra Rao having address at Department Of Commerce And Management Studies, College Of Arts And Commerce, Andhra University, Visakhapatnam, Andhra Pradesh- 530003 India, 10. Anvesh Perada having address at Student (MS in Computer Engineering), Department of Electrical and Computer Engineering, Drexel University, Philadelphia, PA, USA- 19104, 11. Dr Ashok Kumar Katta having address at Professor, Dept of Business Administration, VELS Institute of Science, Technology, and Advanced Studies (VISTAS) , Old Pallavaram, Chennai, 600117 Chengalpattu, TamilNadu, India, 12. Chandra Babu J having address at Assistant Professor, Department of Computer Science and Engineering, Annamacharya Institute of Technology and science, Tirupati- 517520, Andhra Pradesh, India, hereby authorize “Kalaimathi J” having address at “Vaagai IP, Vadasithur, Kinathukadavu (T.K), Coimbatore (DT) – 641202, Tamilnadu, India, Email id: patent.vaagaiip@gmail.com” to act on our behalf in connection with titled “THE STRATEGIC IMPACT OF MACHINE LEARNING ON EMPLOYEE PERFORMANCE EVALUATION IN HUMAN RESOURCE MANAGEMENT**”** and request that all notices, requisitions and communication relating thereto may be sent to such person at the above address unless otherwise specified.

We hereby revoke all previous authorization, if any made, in respect of same matter or proceeding.

I/We hereby assent to the action already taken by the said person in the above matter.

Dated this 02nd day of November, 2024

(a) Signature:

(b) Name: Dr. T. Vetrivel

(a) Signature:

(b) Name: Dr. B. V. Ramana

(a) Signature:

(b) Name: Mohd Younis Rather

(a) Signature:

(b) Name: B. Sandhiya

(a) Signature:

(b) Name: Dr. Mahesh Ashok Bomble

(a) Signature:

(b) Name: R. Veerappan

(a) Signature:

(b) Name: Dr. B.Vasavi

(a) Signature:

(b) Name: Dr. Pramod Gupta

(a) Signature:

(b) Name: Jampa Nagendra Rao

(a) Signature:

(b) Name: Anvesh Perada

(a) Signature:

(b) Name: Dr Ashok Kumar Katta

(a) Signature:

(b) Name: Chandra Babu J

To,

The Controller of Patents,

The Patent Office, Chennai.

FORM 3

THE PATENTS ACT,
1970 (39 of 1970)
and
THE PATENTS RULES, 2003

STATEMENT AND UNDERTAKING
UNDER SECTION 8

(See section 8; Rule 12)

1. Name of the applicant(s).	I/We Dr. T. Vetrivel, Dr. B. V. Ramana, Mohd Younis Rather, B. Sandhiya, Dr. Mahesh Ashok Bomble,R. Veerappan, Dr. B.Vasavi, Dr. Pramod Gupta, Jampa Nagendra Rao, Anvesh Perada, Dr Ashok Kumar Katta, Chandra Babu J, all are citizen of India, Address of one of the Applicant: Professor & Head, Department of Management Studies, Velalar College of Engineering and Technology, Erode – 638012, Tamilnadu, India.
2. Name, address and nationality of the joint applicant.	(i) that I/We have not made any application for the same/substantially the same invention outside India Or (ii) ~~that I/We who have made this application No… dated alone/jointly with~~ ……; ~~made for the same/ substantially same invention, application(s) for patent in the other countries, the particulars of which are given below:~~

Name of the Country	Date of Application	Application No.	Status of the Application	Date of Publication	Date of grant
-	-	-	-	-	-

3. Name and address of the assignee	(iii) that the rights in the application(s) has/have been assigned to …… none …… …… …… that I/We undertake that up to the date of grant of the patent by the Controller, I/We would keep him informed in writing the details regarding corresponding applications for patents filed outside India within six months from the date of filing of such application. **Dated this 02nd day of October, 2024**

4. To be signed by the applicant or his authorized registered patent agent.	**Signature:**
5. Name of the natural person who has signed.	Dr. T. Vetrivel **Name of the Applicant(s)**
	To The Controller of Patents, The Patent Office, at Chennai

Office of the Controller General of Patents, Designs & Trade Marks
Department for Promotion of Industry and Internal Trade
Ministry of Commerce & Industry,
Government of India

(http://ipindia.nic.in/index.htm)

(http://ipindia.nic.in/index.htm)

Application Details	
APPLICATION NUMBER	202441087938
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	14/11/2024
APPLICANT NAME	1 . Mrs. D. Jyothi 2 . Dr. Ankireddy Yenireddy 3 . Mr. K. Lakshminarayana 4 . Dr. M. Rajani 5 . Mrs. Ashwini 6 . Dr. Hemlata Jethanandani 7 . Mrs. Poonam Sharma 8 . Dr. Priyadharsini M 9 . Dr. G. Jayalalitha 10 . Dr. R. Kamali 11 . Dr. GopiKrishna Pasam
TITLE OF INVENTION	Integrated Statistical, Machine Learning, and Deep Learning Model for Time Series Forecasting
FIELD OF INVENTION	COMPUTER SCIENCE

E-MAIL (As Per Record)	nmkumar797@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	22/11/2024

Application Status	
APPLICATION STATUS	**Awaiting Request for Examination**

View Documents

Filed → Published → RQ Filed → Under Examination → Disposed

In case of any discrepancy in status, kindly contact ipo-helpdesk@nic.in

Office of the Controller General of Patents, Designs & Trade Marks
Department for Promotion of Industry and Internal Trade
Ministry of Commerce & Industry,
Government of India

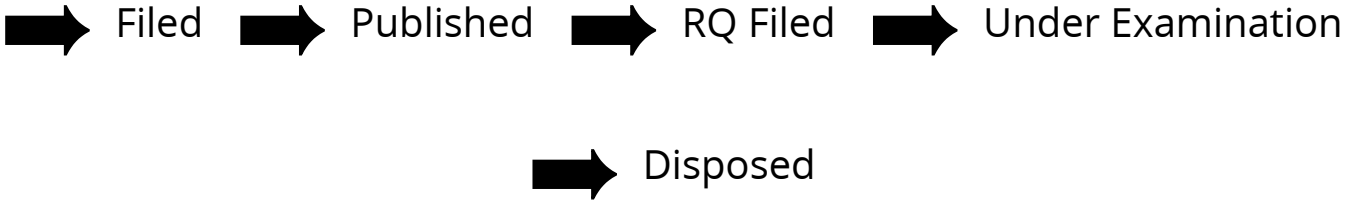
(http://ipindia.nic.in/index.htm)

(http://ipindia.nic.in/index.htm)

Application Details	
APPLICATION NUMBER	202441092944
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	27/11/2024
APPLICANT NAME	1 . Dr.B.SANJEEVAN 2 . Dr. ANJAY KUMAR MISHRA 3 . Dr. VIJAYAKUMAR. N 4 . Dr. LILA SIMON 5 . Dr.K.SHYAM KUMAR 6 . Ms.P.POORNIMA 7 . Dr. P. LOKESH MUNI KUMAR 8 . Dr.C.SHALINI 9 . Dr.T.AMUDHA 10 . Mrs.S. KARPAGALAKSHMI 11 . Dr. G.BIJEESH PUSHPA
TITLE OF INVENTION	The role of data analysis in Commerce - Opportunities & Challenges
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	arinnapatent@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	06/12/2024

Application Status	
APPLICATION STATUS	**Awaiting Request for Examination**

View Documents



In case of any discrepancy in status, kindly contact ipo-helpdesk@nic.in

Office of the Controller General of Patents, Designs & Trade Marks
Department for Promotion of Industry and Internal Trade
Ministry of Commerce & Industry,
Government of India

(http://ipindia.nic.in/index.htm)

(http://ipindia.nic.in/index.htm)

Application Details	
APPLICATION NUMBER	202441094473
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	01/12/2024
APPLICANT NAME	1 . R. Akshaya 2 . Dr. A. Suganthini 3 . Kk. Nakshathra 4 . Godhawari. P 5 . Subin Abraham 6 . Kishore Chandru 7 . Sree Lekha V 8 . Arun. S 9 . Maheja Mahadevan Mithran 10 . Amirtha. R
TITLE OF INVENTION	ARTIFICIAL INTELLIGENCE-BASED FRAUD DETECTION SYSTEM
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	patentpointservices@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	

PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	13/12/2024

Application Status	
APPLICATION STATUS	**Awaiting Request for Examination**

View Documents

➡ Filed ➡ Published ➡ RQ Filed ➡ Under Examination ➡ Disposed

In case of any discrepancy in status, kindly contact ipo-helpdesk@nic.in

पेटेंट कार्यालय
शासकीय जर्नल

OFFICIAL JOURNAL
OF
THE PATENT OFFICE

निर्गमन सं. 49/2024	शुक्रवार	दिनांक: 06/12/2024
ISSUE NO. 49/2024	FRIDAY	DATE: 06/12/2024

पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

INTRODUCTION

In view of the recent amendment made in the Patents Act, 1970 by the Patents (Amendment) Act, 2005 effective from 01st January 2005, the Official Journal of The Patent Office is required to be published under the Statute. This Journal is being published on weekly basis on every Friday covering the various proceedings on Patents as required according to the provision of Section 145 of the Patents Act 1970. All the enquiries on this Official Journal and other information as required by the public should be addressed to the Controller General of Patents, Designs & Trade Marks. Suggestions and comments are requested from all quarters so that the content can be enriched.

(PROF. (DR) UNNAT P. PANDIT)
CONTROLLER GENERAL OF PATENTS, DESIGNS & TRADE MARKS

06th December, 2024

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EARLY PUBLICATION (MUMBAI)	**:**	**114722-114905**
EARLY PUBLICATION (CHENNAI)	**:**	**114906-115479**
EARLY PUBLICATION (KOLKATA)	**:**	**115480-115564**
PUBLICATION AFTER 18 MONTHS (DELHI)	**:**	**115565-116593**
PUBLICATION AFTER 18 MONTHS (MUMBAI)	**:**	**116594-116735**
PUBLICATION AFTER 18 MONTHS (CHENNAI)	**:**	**116736-117054**
PUBLICATION AFTER 18 MONTHS (KOLKATA)	**:**	**117055-117073**
WEEKLY ISSUED FER (DELHI)	**:**	**117074-117082**
WEEKLY ISSUED FER (MUMBAI)	**:**	**117083-117088**
WEEKLY ISSUED FER (CHENNAI)	**:**	**117089-117099**
WEEKLY ISSUED FER (KOLKATA)	**:**	**117100-117102**
PUBLICATION UNDER SECTION 43(2) IN RESPECT OF THE GRANT (DELHI)	**:**	**117103-117123**
PUBLICATION UNDER SECTION 43(2) IN RESPECT OF THE GRANT (MUMBAI)	**:**	**117124-117135**
PUBLICATION UNDER SECTION 43(2) IN RESPECT OF THE GRANT (CHENNAI)	**:**	**117136-117155**
PUBLICATION UNDER SECTION 43(2) IN RESPECT OF THE GRANT (KOLKATA)	**;**	**117156-117161**
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PUBLICATION U/R 84(3) IN RESPECT OF APPLICATION FOR RESTORATION OF PATENTS	**:**	**117164-117167**
COPYRIGHT PUBLICATION	**:**	**117168**
Corrigendum	**:**	**117169-117186**
INTRODUCTION TO DESIGN PUBLICATION	**:**	**117187**
REGISTRATION OF DESIGNS	**:**	**117188-117374**

THE PATENT OFFICE
KOLKATA, 06/12/2024
Address of the Patent Offices/Jurisdictions
The following are addresses of all the Patent Offices located at different places having their Territorial Jurisdiction on a Zonal basis as shown below:-

1	Office of the Controller General of Patents, Designs & Trade Marks, Boudhik Sampada Bhavan, Near Antop Hill Post Office,S.M.Road,Antop Hill, Mumbai – 400 037 Phone: (91)(22) 24123311, Fax : (91)(22) 24123322 E-mail: cgpdtm@nic.in	4	The Patent Office, Government of India, Intellectual Property Rights Building, G.S.T. Road, Guindy, Chennai – 600 032. Phone: (91)(44) 2250 2081-84 Fax : (91)(44) 2250 2066 E-mail: chennai-patent@nic.in ❖ The States of Andhra Pradesh, Telangana, Karnataka, Kerala, Tamil Nadu and the Union Territories of Puducherry and Lakshadweep.
2	The Patent Office, Government of India, Boudhik Sampada Bhavan, Near Antop Hill Post Office,S.M.Road,Antop Hill, Mumbai – 400 037 Phone: (91)(22) 24137701 Fax: (91)(22) 24130387 E-mail: mumbai-patent@nic.in ❖ The States of Gujarat, Maharashtra, Madhya Pradesh, Goa and Chhattisgarh and the Union Territories of Daman and Diu & Dadra and Nagar Haveli	5	The Patent Office (Head Office), Government of India, Boudhik Sampada Bhavan, CP-2, Sector –V, Salt Lake City, Kolkata- 700 091 Phone: (91)(33) 2367 1943/44/45/46/87 Fax: (91)(33) 2367 1988 E-Mail: kolkata-patent@nic.in ❖ Rest of India
3	The Patent Office, Government of India, Boudhik Sampada Bhavan, Plot No. 32., Sector-14, Dwarka, New Delhi – 110075 Phone: (91)(11) 25300200 & 28032253 Fax: (91)(11) 28034301 & 28034302 E.mail: delhi-patent@nic.in ❖ The States of Haryana, Himachal Pradesh, Jammu and Kashmir, Punjab, Rajasthan, Uttar Pradesh, Uttaranchal, Delhi and the Union Territory of Chandigarh.		

Website: www.ipindia.nic.in
www.patentoffice.nic.in

All applications, notices, statements or other documents or any fees required by the Patents Act, 1970 and The Patents (Amendment) Act, 2005 or by the Patents (Amendment) Rules, 2006 will be received only at the appropriate offices of the Patent Office.

Fees: The Fees may either be paid in cash or may be sent by Bank Draft or Cheques payable to the Controller of Patents drawn on a scheduled Bank at the place where the appropriate office is situated.

पेटेंट कार्यालय
कोलकाता, दिनांक 06/12/2024
कार्यालयों के क्षेत्राधिकार के पते

विभिन्न जगहों पर स्थित पेटेंट कार्यालय के पते आंचलिक आधार पर दर्शित उनके प्रादेशिक अधिकार क्षेत्र के साथ नीचे दिए गए है:-

1	कार्यालय : महानियंत्रक, एकस्व, अभिकल्प तथा व्यापार चिहन, एंटोप हिल डाकघर के समीप, एस. एम. रोड, एंटोप हिल, मुम्बई- 400 037, भारत, फोन: (91) (22) 24123311 फ़ैक्स: (91) (22) 24123322 ई. मेल: cgpdtm@nic.in	4	पेटेंट कार्यालय, भारत सरकार इंटेलेक्चुअल प्रॉपर्टी राइट्स बिल्डिंग, इंडस्ट्रियल इस्टेट एसआईडीसीओ आरएमडी गोडाउन एरिया एडजसेन्ट टु ईगल फ्लास्क, जी. एस. टी. रोड, गायन्डी चेन्नई - 600 032. फोन: (91)(44) 2250 2081-84 फ़ैक्स: (91)(44) 2250-2066 ई. मेल: chennai-patent@nic.in ❖ आन्ध्र प्रदेश, तेलंगाना, कर्नाटक, केरल, तमिलनाडु तथा पुडुचेरी राज्य क्षेत्र एवं संघ शासित क्षेत्र, लक्षदीप
2	पेटेंट कार्यालय, भारत सरकार बौद्धिक संपदा भवन, एंटोप हिल डाकघर के समीप, एस. एम. रोड, एंटोप हिल, मुम्बई- 400 037, फोन: (91) (22) 24137701 फ़ैक्स: (91) (22) 24130387 ई. मेल: Mumbai-patent@nic.in ❖ गुजरात, महाराष्ट्र, मध्य प्रदेश, गोवा तथा छत्तीसगढ़ राज्य क्षेत्र एवं संघ शासित क्षेत्र, दमन तथा दीव, दादर और नगर हवेली.	5	पेटेंट कार्यालय, भारत सरकार कोलकाता, (प्रधान कार्यालय) बौद्धिक संपदा भवन, सीपी-2, सेक्टर- V, साल्ट लेक सिटी, कोलकाता-700 091, भारत. फोन: (91)(33) 2367 1943/44/45/46/87 फ़ैक्स:/Fax: (91)(33) 2367 1988 ई. मेल: kolkata-patent@nic.in ❖ भारत का अवशेष क्षेत्र
3	पेटेंट कार्यालय, भारत सरकार बौद्धिक संपदा भवन, प्लॉट सं. 32, सेक्टर- 14, द्वारका, नई दिल्ली- 110 075. फोन: (91)(11) 25300200, 28032253 फ़ैक्स: (91)(11) 28034301, 28034302 ई. मेल: delhi-patent@nic.in हरियाणा, हिमाचल प्रदेश, जम्मू तथा कश्मीर, पंजाब,राजस्थान, उत्तर प्रदेश, दिल्ली तथा उत्तरांचल राज्य क्षेत्रों, एवं संघ शासित क्षेत्र चंडीगढ़		

वेबसाइट: http://www.ipindia.nic.in
www.patentoffice.nic.in

पेटेंट अधिनियम, 1970 तथा पेटेंट (संशोधन) अधिनियम, 2005 अथवा पेटेंट (संशोधन) नियम, 2006 द्वारा वांछित सभी आवेदन, सूचनाए, विवरण या अन्य दस्तावेज़ या कोई शुल्क पेटेंट कार्यालय के केवल उपयुक्त कार्यालय में स्वीकृत होंगे।

शुल्क: शुल्क या तो नगद रूप में या Controller of Patents के नाम में देय बैंक ड्राफ्ट या चेक के द्वारा भेजी जा सकती है जो उसी स्थान के किसी अनुसूचित बैंक में प्रदत्त हो जहाँ उपयुक्त कार्यालय स्थित है ।

SPECIAL NOTICE

18 Months publication as required under Section 11A of the Patents Act, 1970 as amended by the Patents (Amendment) Act, 2005.

Notice is hereby given that any person at any time before the grant of Patent may give representation by way of opposition to the Controller of Patents at appropriate office on the ground and in a manner specified under section 25(1) of the Patents (Amendment) Act, 2005 read with Rule 55 of the Patents (Amendment) Rules, 2006.

Notice is also given that if any interested person requests for copies of the complete specification, drawing and abstract of any application already published, the photocopy of the same can be supplied by the Patent Office as per the jurisdiction on payment of prescribed fees of Rs.8/- per page. If any further details are required to be obtained, the same can be provided by the respective Patent Offices on request.

(PROF. (DR) UNNAT P. PANDIT)
CONTROLLER GENERAL OF PATENTS, DESIGNS & TRADE MARKS

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/12/2024

(21) Application No.202441094907 A
(43) Publication Date : 06/12/2024

(54) Title of the invention : Wireless IoT Sensor Network for Efficient Environmental Monitoring

(51) International classification :G01N0033000000, H04L0067120000, G06N0020000000, B64C0039020000, H04W0084180000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)Vels Institute of Science, Technology & Advanced Studies (VISTAS), Chennai, Tamil Nadu, India. Pin code:600117
Address of Applicant :Vels Institute of Science, Technology & Advanced Studies (VISTAS), Chennai, Tamil Nadu, India. Pin code:600117 Chennai ---------- ----------
2)Dr. G. R. Jothi Lakshmi
3)Dr.T.Jaya
4)Dr A Vijayalakshmi
5)Dr.R.Kumudham
6)Dr.Z.Mary Livinsa.Z
7)Ms. G. Suvetha
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)Dr. G. R. Jothi Lakshmi
Address of Applicant :Professor, Department Of Electronics and Communication Engineering, School of Engineering, Vels Institute of Science Technology & Advanced Studies(VISTAS), PV Vaithiyalingam Road, Velan Nagar, Krishnapuram, Pallavaram, Chennai, Tamil Nadu - 600117 Chennai ---------- ----------
2)Dr.T.Jaya
Address of Applicant :Professor, Department Of Electronics and Communication Engineering, Vels Institute Of Science, Technology & Advanced Studies(VISTAS), Chennai, Tamil Nadu, India. Pin code:600117 Chennai ---------- ----------
3)Dr A Vijayalakshmi
Address of Applicant :Professor, Department Of Electronics and Communication Engineering, School of Engineering & Technology, Vels Institute of Science, Technology & Advanced Studies(VISTAS), PV Vaithiyalingam Road, Velan Nagar, Krishnapuram, Pallavaram, Chennai, Tamil Nadu - 600117 Chennai ---------- ----------
4)Dr.R.Kumudham
Address of Applicant :Associate Professor, Department Of Electronics and Communication Engineering, School of Engineering & Technology, Vels Institute of Science, Technology & Advanced Studies (VISTAS), PV Vaithiyalingam Rd, Velan Nagar, Krishnapuram, Pallavaram, Chennai, Tamil Nadu - 600117 Chennai ---------- ----------
5)Dr.Z.Mary Livinsa.Z
Address of Applicant :Associate Professor, Department Of Electronics and Communication Engineering, Vels Institute of Science, Technology & Advanced Studies(VISTAS), PV Vaithiyalingam Road, Velan Nagar, Krishnapuram, Pallavaram, Chennai, Tamil Nadu - 600117 Chennai ---------- ----------
6)Ms. G. Suvetha
Address of Applicant :Assistant Professor, Department Of Electronics and Communication Engineering, School of Engineering & Technology, Vels Institute of Science, Technology & Advanced Studies (VISTAS), PV Vaithiyalingam Rd, Velan Nagar, Krishnapuram, Pallavaram, Chennai, Tamil Nadu - 600117 Chennai ---------- ----------

(57) Abstract :
ABSTRACT This invention presents a wireless IoT sensor network designed for efficient and scalable environmental monitoring. The system features energy-harvesting sensors, robust communication protocols, and AI-based analytics for real-time insights. Applications include air quality monitoring, precision agriculture, and disaster management. It is cost-effective, reliable, and user-friendly, addressing current environmental monitoring challenges.

No. of Pages : 8 No. of Claims : 5

पेटेंट कार्यालय
शासकीय जर्नल

OFFICIAL JOURNAL
OF
THE PATENT OFFICE

निर्गमन सं. 1/2025	शुक्रवार	दिनांक: 03/01/2025
ISSUE NO. 1/2025	FRIDAY	DATE: 03/01/2025

पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/12/2024

(21) Application No.202441102877 A
(43) Publication Date : 03/01/2025

(54) Title of the invention : HIGH-EFFICIENCY PEROVSKITE SOLAR CELL WITH ENHANCED STABILITY AND SCALABLE MANUFACTURING PROCESS

(51) International classification :H10K0085500000, H01L0031021600, A61K0039000000, H10K0102000000, H01L0031054000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)Dr Sangeetha Mahendrakar
Address of Applicant :Assistant Professor, Department of Physics, Humanities and Science, Guru Nanak Institutions Technical Campus, Hyderabad, Telangana- 501506 Hyderabad ---------- ----------
2)Dr. Nilesh S. Kanhe
3)Dr Avinash Kumar
4)Dr V Vallinayagam
5)Dr S. Devi
6)Dr C. Ramesh
7)Avinash A Rakh
8)Dr. K.Chandrasekaran
9)Dr. Subhasis Roy
10)Sarnendu Paul
11)Mohammed Zubairuddin
12)Dr S. Thirumal
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)Dr Sangeetha Mahendrakar
Address of Applicant :Assistant Professor, Department of Physics, Humanities and Science, Guru Nanak Institutions Technical Campus, Hyderabad, Telangana- 501506 Hyderabad ---------- ----------
2)Dr. Nilesh S. Kanhe
Address of Applicant :Assistant Professor, Department of Physics, Art's, Commerce and Science College Satral, Tal Rahuri Dist Ahmednagar, Maharashtra, 413711. Ahmednagar ---------- ----------
3)Dr Avinash Kumar
Address of Applicant :Assistant Professor, Department of Mechanical Engineering, Cambridge Institute of Technology, Tatisilwai, Ranchi- 835103 Ranchi ---------- ----------
4)Dr V Vallinayagam
Address of Applicant :Professor, Department of Mathematics, St.Joseph's College of Engineering, OMR, Chennai- 600119 Chennai ---------- ----------
5)Dr S. Devi
Address of Applicant :Associate Professor, Department of Physics, Velalar College of Engineering and Technology, Thindal, Erode-638012 Erode ---------- ----------
6)Dr C. Ramesh
Address of Applicant :Professor, Department of Mechanical Engineering, M.Kumarasamy College of Engineering, Karur- 639113 Karur ---------- ----------
7)Avinash A Rakh
Address of Applicant :Assistant Professor, Department of Civil Engineering, MIT School of Engineering & Sciences, MITADT University, Pune- 412201 Pune ---------- ----------
8)Dr. K.Chandrasekaran
Address of Applicant :Assistant Professor, Department of Mechanical Engineering, K.S.R College of Engineering, Tiruchengodu- 637215 Tiruchengodu ---------- ----------
9)Dr. Subhasis Roy
Address of Applicant :Assistant Professor, Department of Chemical Engineering , University of Calcutta 92, A.P.C. Road, Kolkata: 700009 Kolkata ---------- ----------
10)Sarnendu Paul
Address of Applicant :Assistant Professor, Department of Mechanical Engineering, Asansol Engineering College, Asansol, West Bengal- 713305 Asansol ---------- ----------
11)Mohammed Zubairuddin
Address of Applicant :Associate Professor, Department of Mechanical Engineering, Aditya University, Surampalem, Kakinada- 533437 Surampalem ---------- ----------
12)Dr S. Thirumal
Address of Applicant :Associate Professor, Department of CSE, Vels Institute of Science Technology and Advanced Studies Chennai ---------- ----------

(57) Abstract :
High-Efficiency Perovskite Solar Cell with Enhanced Stability and Scalable Manufacturing Process is the proposed invention. The proposed invention focuses on understanding the functions of High-Efficiency Perovskite Solar Cell. The invention focuses on analyzing the parameters of Stability and Scalable Manufacturing Process of Perovskite Solar Cell.

No. of Pages : 12 No. of Claims : 4

Intellectual Property Office

Certificate of Registration for a UK Design

Design number: 6354016

Grant date: 27 March 2024

Registration date: 20 March 2024

This is to certify that,

in pursuance of and subject to the provision of Registered Designs Act 1949, the design of which a representation or specimen is attached, had been registered as of the date of registration shown above in the name of

Dr. SUNDARARAJ JOE PATRICK GNANARAJ, Dr. RAMESH SHANMUGAM,

Ms. MONIKAA RAGUPATHY , Mr. NAVEENKUMAR MANIVEL , Mr. SHREE

MAKESH NAGARAJAN, Ms. VIJAYALAKSHMI RAMAR , Ms. DEEPA

RAJAMANICKAM, Dr. SENTHIL KRISHNAMOORTHY

in respect of the application of such design to:

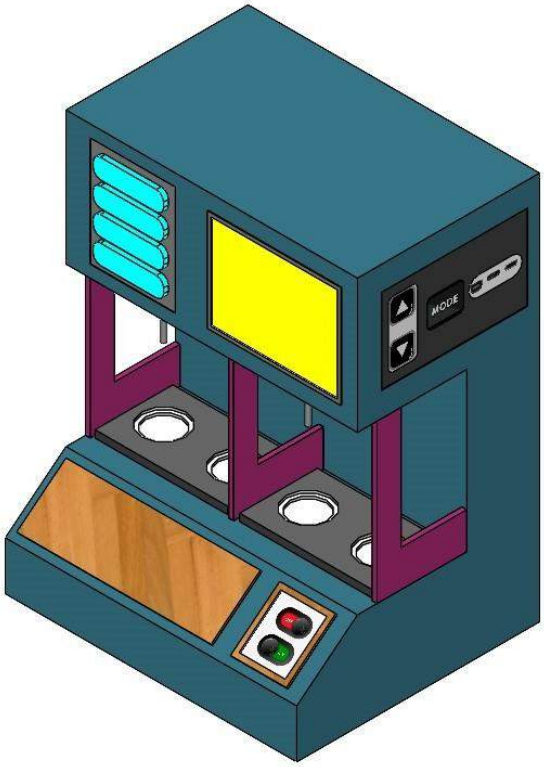
AI BASED DETECTING AND WATER TESTING SMART DEVICE

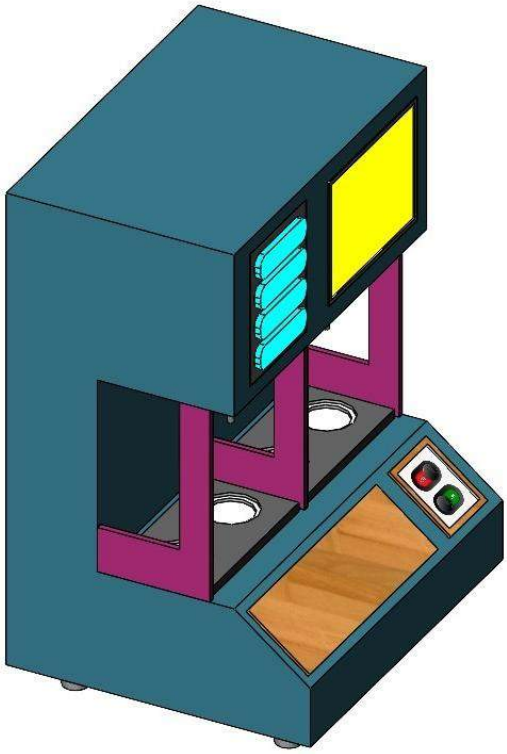
International Design Classification:
Version: 14-2023
Class: 10 CLOCKS AND WATCHES AND OTHER MEASURING INSTRUMENTS, CHECKING AND SIGNALLING INSTRUMENTS
Subclass: 05 INSTRUMENTS, APPARATUS AND DEVICES FOR CHECKING, SECURITY OR TESTING

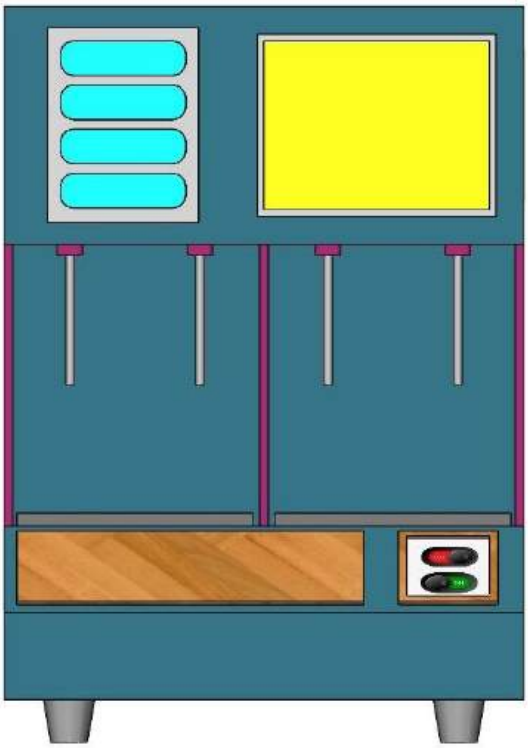
Adam Williams

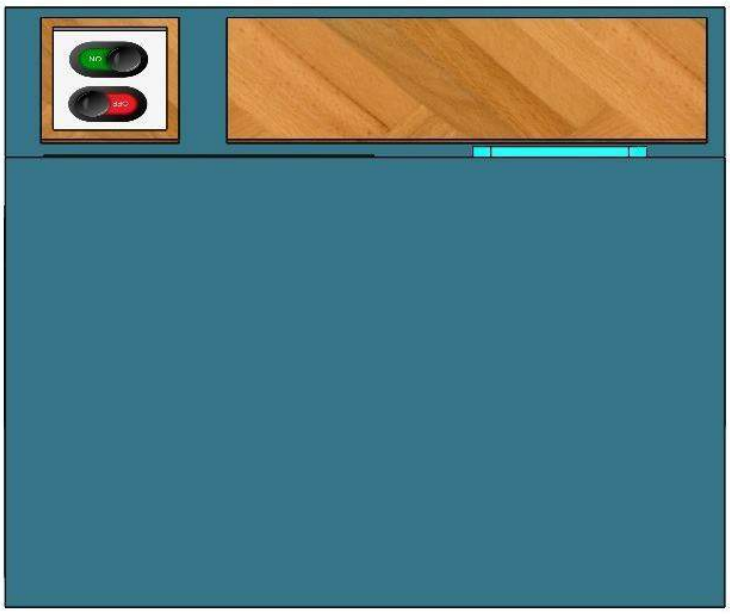
Adam Williams
Comptroller-General of Patents, Designs and Trade Marks
Intellectual Property Office
The attention of the Proprietor(s) is drawn to the important notes overleaf.

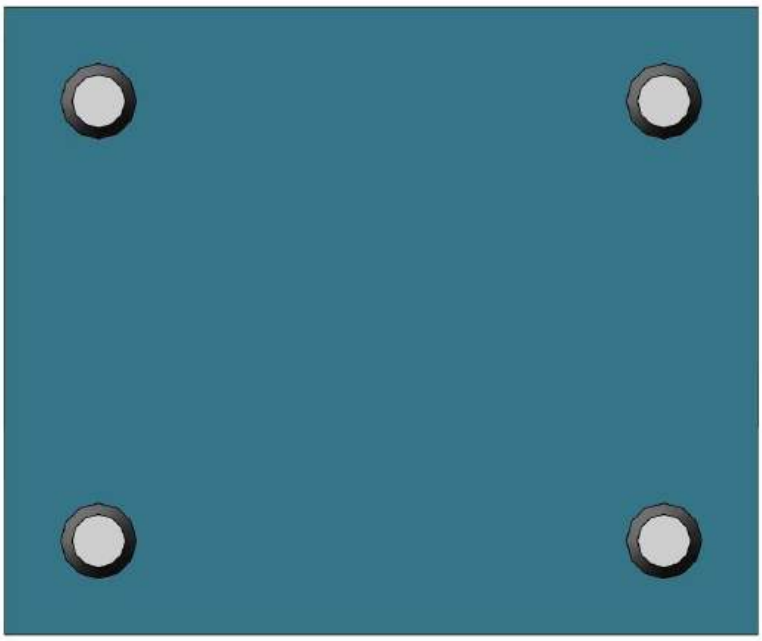
Representation of Designs

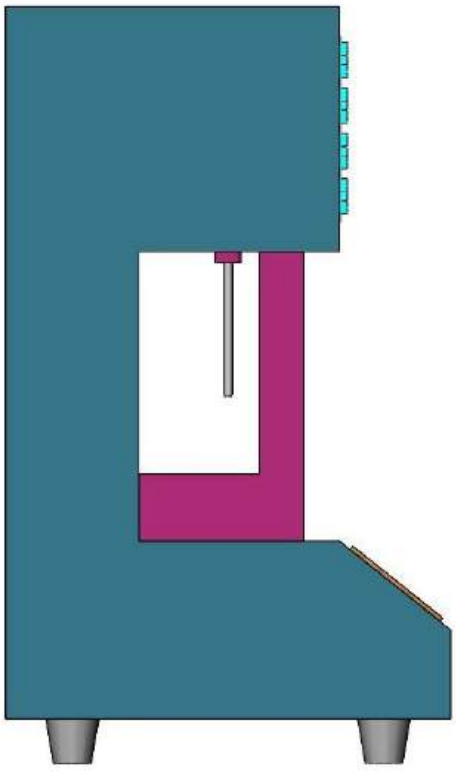












Certificate of Registration for a UK Design

Design number: 6354017

Grant date: 27 March 2024

Registration date: 20 March 2024

This is to certify that,

in pursuance of and subject to the provision of Registered Designs Act 1949, the design of which a representation or specimen is attached, had been registered as of the date of registration shown above in the name of

Dr. SUNDARARAJ JOE PATRICK GNANARAJ, Dr. RAMESH SHANMUGAM,

Ms. MONIKAA RAGUPATHY , Mr. NAVEENKUMAR MANIVEL , Mr. SHREE

MAKESH NAGARAJAN, Ms. VIJAYALAKSHMI RAMAR , Ms. DEEPA

RAJAMANICKAM, Dr. SENTHIL KRISHNAMOORTHY

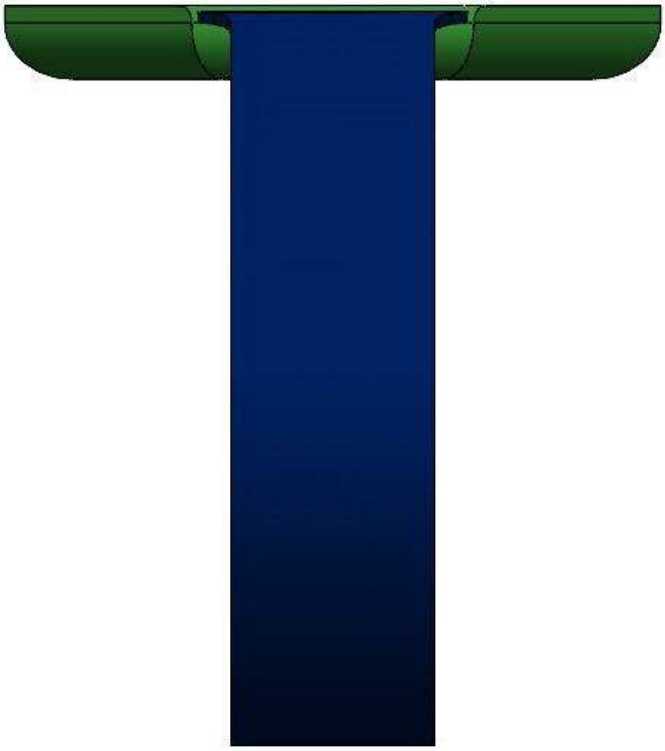
in respect of the application of such design to:

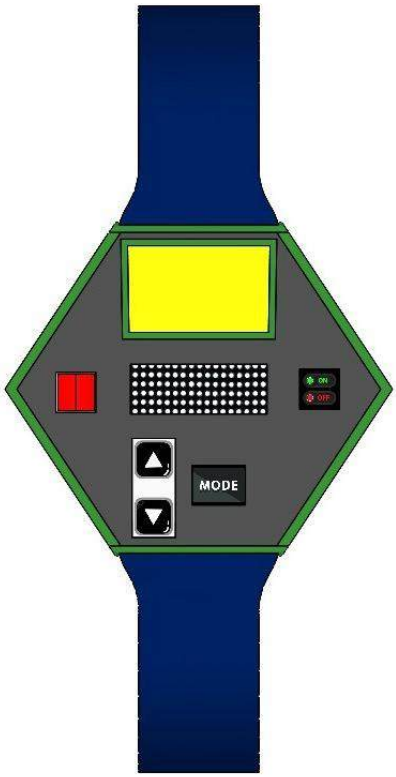
MACHINE LEARNING BASED STRESS DETECTION DEVICE

International Design Classification:
Version: 14-2023
Class: 10 CLOCKS AND WATCHES AND OTHER MEASURING INSTRUMENTS, CHECKING AND SIGNALLING INSTRUMENTS
Subclass: 04 OTHER MEASURING INSTRUMENTS, APPARATUS AND DEVICES

Adam Williams
Comptroller-General of Patents, Designs and Trade Marks
Intellectual Property Office
The attention of the Proprietor(s) is drawn to the important notes overleaf.

Representation of Designs

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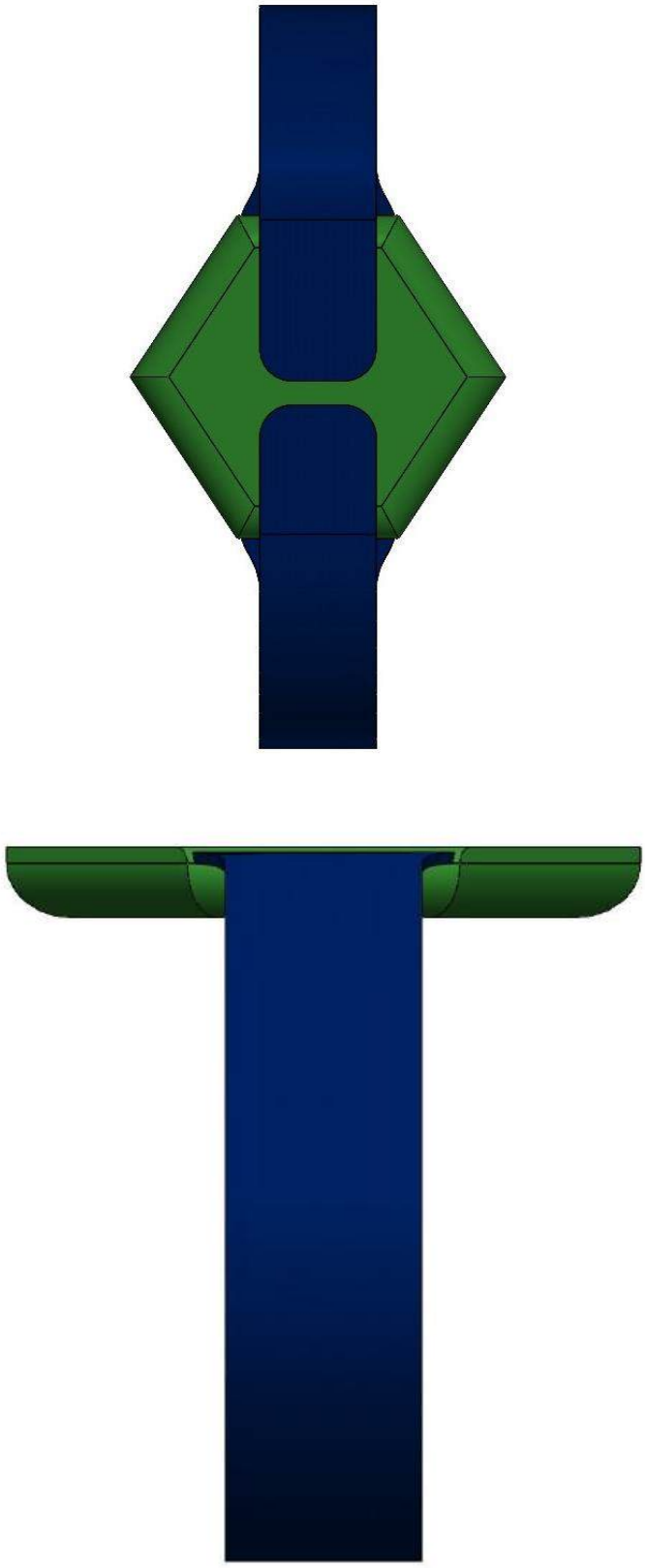

Certificate of Registration for a UK Design

Design number: 6363263

Grant date: 14 May 2024

Registration date: 01 May 2024

This is to certify that,

in pursuance of and subject to the provision of Registered Designs Act 1949, the design of which a representation or specimen is attached, had been registered as of the date of registration shown above in the name of

Dr. Nandan Kumar Navin, Mr. Aritra Bandyopadhyay, Dr. Venkataramana Guntreddi, Dr. Parthasarathy Mohandoss, Dr. Arijit Bardhan Roy, Prof (Dr) Amit Parashar

in respect of the application of such design to:

Automated Solar Charging Station for Battery Electric Vehicles

International Design Classification:
Version: 14-2023
Class: 13 EQUIPMENT FOR PRODUCTION, DISTRIBUTION OR TRANSFORMATION OF ELECTRICITY
Subclass: 03 EQUIPMENT FOR DISTRIBUTION OR CONTROL OF ELECTRIC POWER

Version: 14-2023
Class: 13 EQUIPMENT FOR PRODUCTION, DISTRIBUTION OR TRANSFORMATION OF ELECTRICITY
Subclass: 04 SOLAR EQUIPMENT

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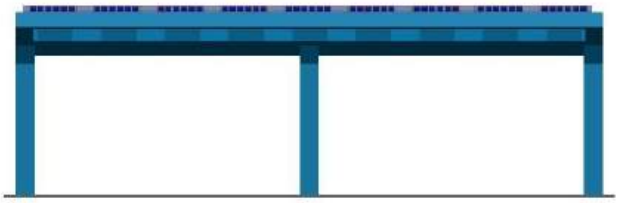
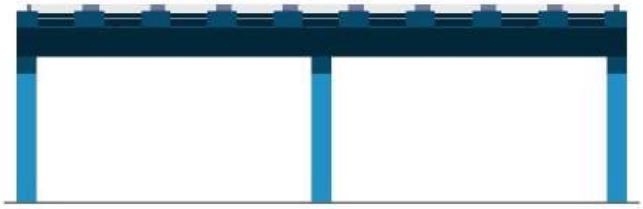
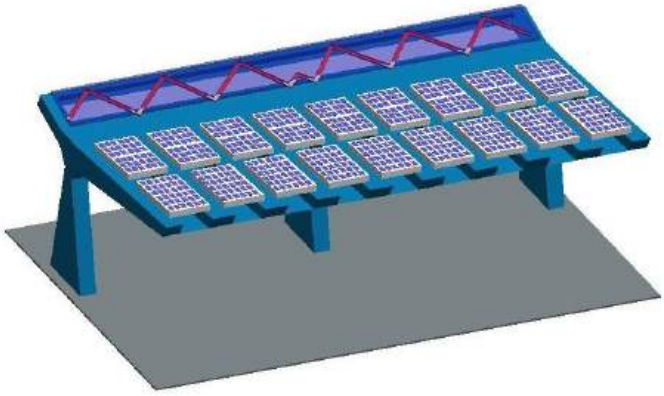
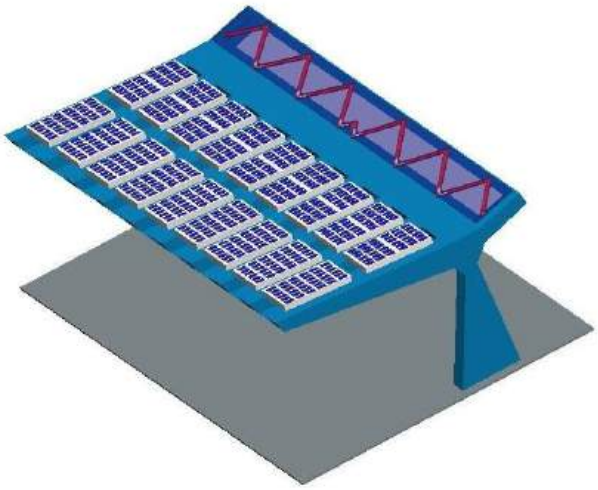
Comptroller-General of Patents, Designs and Trade Marks
Intellectual Property Office
The attention of the Proprietor(s) is drawn to the important notes overleaf.

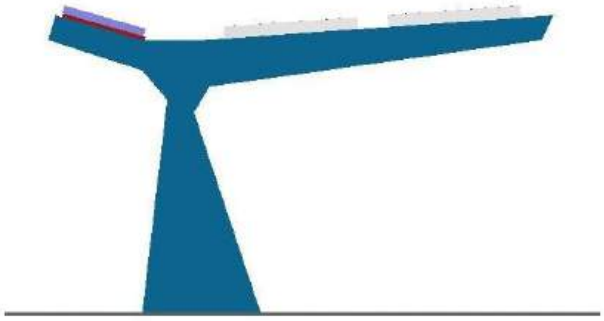
Representation of Designs











Certificate of Registration for a UK Design

Design number: 6380403

Grant date: 31 July 2024

Registration date: 24 July 2024

This is to certify that,

in pursuance of and subject to the provision of Registered Designs Act 1949, the design of which a representation or specimen is attached, had been registered as of the date of registration shown above in the name of

Nadella Chenchu Chandu Prasanth, Dr. Somarouthu Venkata Govardhana

Veera Anjaneya Prasad, Dr. Somasekar Muthusamy, Dr. Yakkala Naga Chandra

Ravi Babu, Dr.Prathipati Baby Sandhya Sri, Dr.Manasi Vyankatesh Ghamande,

Dr. Sandip Subrao Kanase, Dr. Anand Rajendiran, Dr.Vetrivel Murugesan,

Anthony Savio Herminio da Piedade Fernandes

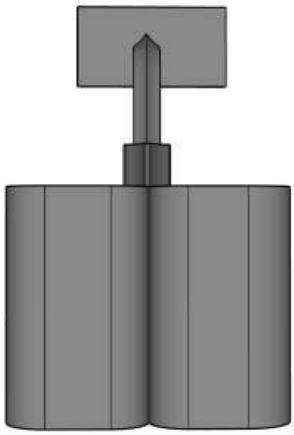
in respect of the application of such design to:

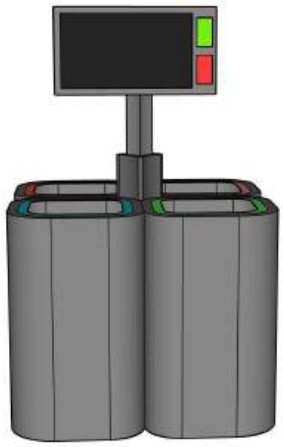
Automatic Robotic Waste Bin

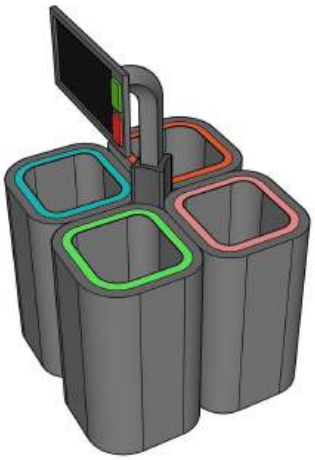
International Design Classification:
Version: 14-2023
Class: 09 PACKAGING AND CONTAINERS FOR THE TRANSPORT OR HANDLING OF GOODS
Subclass: 09 REFUSE AND TRASH CONTAINERS AND STANDS THEREFOR

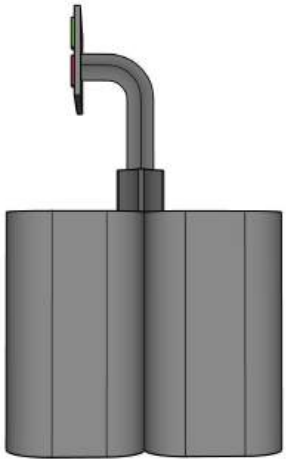
Adam Williams
Comptroller-General of Patents, Designs and Trade Marks
Intellectual Property Office
The attention of the Proprietor(s) is drawn to the important notes overleaf.

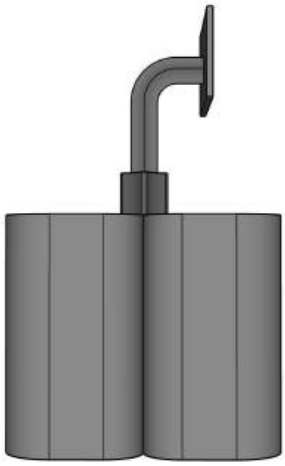
Representation of Designs











Certificate of Registration for a UK Design

Design number: 6399555

Grant date: 29 October 2024

Registration date: 22 October 2024

This is to certify that,

in pursuance of and subject to the provision of Registered Designs Act 1949, the design of which a representation or specimen is attached, had been registered as of the date of registration shown above in the name of

Dr. Puneet Kumar, Mr. Anvesh Perada, Ezil Sam Leni Ayyaswamy, Nallamotu

Parimala, Gali Nageswararao, Dr. Vidya Rasu, Selcuk Bulat, Sekar Devisri,

Swati Kedar Nadgaundi, Ramya Shanmugam

in respect of the application of such design to:

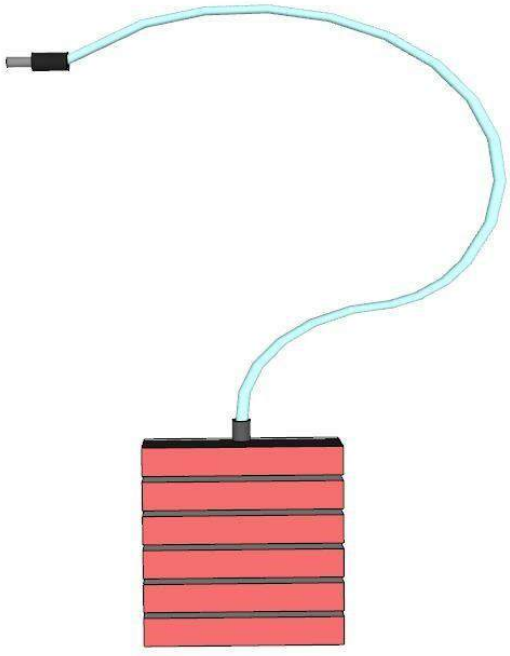
AI-Based Stroke Disease Prediction Device

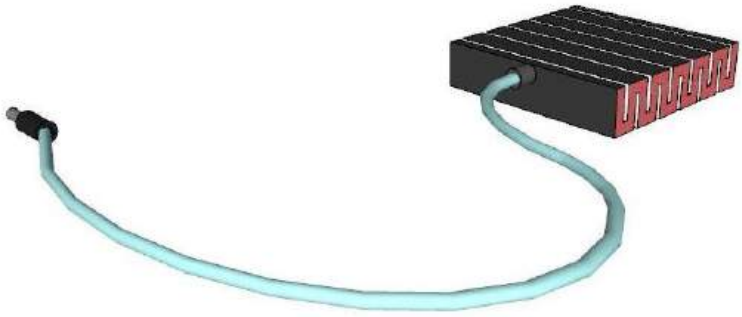
International Design Classification:
Version: 14-2023
Class: 24 MEDICAL AND LABORATORY EQUIPMENT
Subclass: 04 MATERIALS FOR DRESSING WOUNDS, NURSING AND MEDICAL CARE

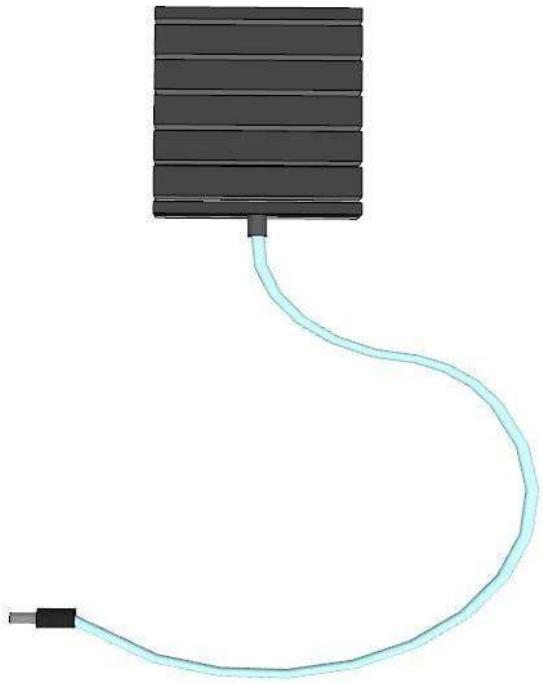
Version: 14-2023
Class: 10 CLOCKS AND WATCHES AND OTHER MEASURING INSTRUMENTS, CHECKING AND SIGNALLING INSTRUMENTS
Subclass: 04 OTHER MEASURING INSTRUMENTS, APPARATUS AND DEVICES

Adam Williams
Comptroller-General of Patents, Designs and Trade Marks
Intellectual Property Office
The attention of the Proprietor(s) is drawn to the important notes overleaf.

Representation of Designs







Office of the Controller General of Patents, Designs & Trade Marks
Department for Promotion of Industry and Internal Trade
Ministry of Commerce & Industry,
Government of India

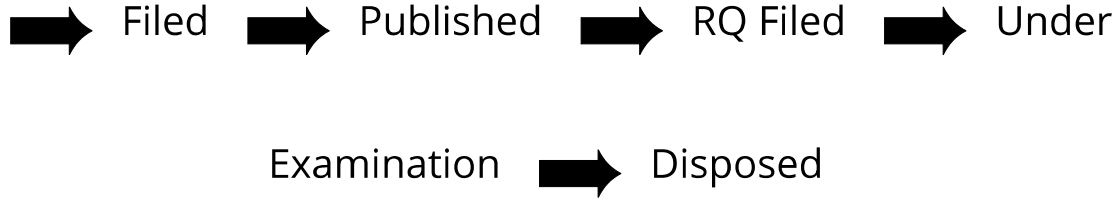
(http://ipindia.nic.in/index.htm)

(http://ipindia.nic.in/index.htm)

Application Details	
APPLICATION NUMBER	202441023295
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	25/03/2024
APPLICANT NAME	1 . V.THIRUMURUGAN 2 . Dr.S.THIRUMAL 3 . Dr, N. KUMAR 4 . Dr.A.MANİKANDAN 5 . Dr. K. KALAIVANI 6 . Dr. R. ANANDAN 7 . Dr. R. VIJAYARANGAN
TITLE OF INVENTION	MULTIFUNCTIONAL AGRITEC ROBOT USING IOT BLUETOOTH TECHNOLOGY USING SENSORS
FIELD OF INVENTION	MECHANICAL ENGINEERING
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	vstm2016@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	29/03/2024

Application Status	
APPLICATION STATUS	Awaiting Request for Examination

			View Documents



In case of any discrepancy in status, kindly contact ipo-helpdesk@nic.in

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/10/2024
(21) Application No.202411078152 A
(43) Publication Date : 25/10/2024

(54) Title of the invention : COLLABORATIVE FILTERING OF MALICIOUS INFORMATION FROM THE MULTIMEDIA DATA USING MULTIGUARDCNN TO COMBAT CYBERCRIME

(51) International classification :G06F0021560000, H04L0009400000, G06N0003045000, G06N0003080000, G06F0021620000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)Ms. Gomathy M
Address of Applicant :Assistant Professor, Department of Computer Application, Banarsidas Chandiwala Institute of Information Technology, Chandiwala Estate, Maa Anandmai Marg, Kalkaji, New Delhi – 110019 ---------- ----------
2)Dr. A.Vidhya
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)Ms. Gomathy M
Address of Applicant :Assistant Professor, Department of Computer Application, Banarsidas Chandiwala Institute of Information Technology, Chandiwala Estate, Maa Anandmai Marg, Kalkaji, New Delhi – 110019 ---------- ----------
2)Dr. A.Vidhya
Address of Applicant :Assistant Professor, Department of Information Technology, School of Computing Sciences, Vels Institute of Science, Technology and Advanced Studies (VISTAS), Chennai, Tamil Nadu - 600117 ---------- ----------

(57) Abstract :
Deep learning enhances automatic malware variant detection and classification as it provides better categorization by building neural networks with more potentially different layers. In this research, we introduce a methodology for extracting various feature sets from malware executable files, including sections, byte codes, operational codes, and system calls, focusing on PE Header data. We utilized a novel approach, the Malware Detection Deep Belief Neural Network (MDDBNN), which achieved an accuracy of 96.88% in analyzing malware within the PE header dataset. Additionally, the Malware Detection Convolutional Neural Network (MDCNN) was employed to convert executable files into image files for analysis, resulting in a 96.83% accuracy rate. Our methodology also incorporates image processing techniques for visualizing and categorizing malware within images. Considering the varied formats in which malware data can appear, such as text and images, we propose a new methodology called Multimodal Malware Guardian u

No. of Pages : 25 No. of Claims : 7

पेटेंट कार्यालय
शासकीय जर्नल

OFFICIAL JOURNAL
OF
THE PATENT OFFICE

निर्गमन सं. 44/2024	शुक्रवार	दिनांक: 01/11/2024
ISSUE NO. 44/2024	FRIDAY	DATE: 01/11/2024

पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/10/2024

(21) Application No.202411080079 A

(43) Publication Date : 01/11/2024

(54) Title of the invention : REAL-TIME IOT AND AI-BASED SMART IRRIGATION SYSTEM FOR WATER RESOURCE OPTIMIZATION

(51) International classification	:A01G0025160000, G05B0019042000, G06Q0050020000, G06N0003044000, G05B0013020000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
1)Dr Shafqat Alauddin
Address of Applicant :Professor, Department of Chemistry, Shibli National College, Azamgarh-276001,Uttar Pradesh, India ---------- ----------
2)Dr.S.Rani
3)Dr. Naveen Awasthi
4)Dr. Kunchanapalli Rama Krishna
5)Mrs.Jeeva Selvaraj
6)Dr. Prasanna Kumar Yekula
7)Dr.N.L.Aravinda
8)U Nilabar Nisha
9)Dr Ayesha Heena
10)Dr.M.K.Kirubakaran
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)Dr Shafqat Alauddin
Address of Applicant :Professor, Department of Chemistry, Shibli National College, Azamgarh-276001,Uttar Pradesh, India ---------- ----------
2)Dr.S.Rani
Address of Applicant :Assistant Professor, Department of Information Technology (BCA/IT), Vels Institute of Science, Technology & Advanced Studies (VISTAS), Chennai-600117, Tamilnadu, India ---------- ----------
3)Dr. Naveen Awasthi
Address of Applicant :Assistant Professor, Department of Chemistry, Janta College Bakewar Etawah, Uttar Pradesh-206124, India. ---------- ----------
4)Dr. Kunchanapalli Rama Krishna
Address of Applicant :Professor, Department of Computer Science & Information Technology, Koneru Lakshmaiah Education Foundation, Vijayawada,Andhra Pradesh, India ---------- ----------
5)Mrs.Jeeva Selvaraj
Address of Applicant :Assistant Professor, School of Computing and Technology, REVA University, Rukmini Knowledge Park, Kattigenahalli, Yelahanka, Bangalore- 560064, Karnataka, India ---------- ----------
6)Dr. Prasanna Kumar Yekula
Address of Applicant :Professor, School of Mining Engineering Faculty of Engineering, PNG University of Technology, Private Mail Bag, Lae 411, Morobe Province, Papua New Guinea ---------- ----------
7)Dr.N.L.Aravinda
Address of Applicant :Assistant Professor, Department of ECE, Malla Reddy Engineering College for Women, Dhulapally, Medchal, Telangana-500100, India ---------- ----------
8)U Nilabar Nisha
Address of Applicant :Associate professor/CSE, Mahendra Institute of Technology, Namakkal ---------- ----------
9)Dr Ayesha Heena
Address of Applicant :Assistant Professor, Faculty of Engineering and Technology Exclusively for Women (FETW), Department of Artificial Intelligence and Machine Learning, Sharnbasva University, Kalaburagi, Karnataka, India ---------- ----------
10)Dr.M.K.Kirubakaran
Address of Applicant :Professor, Department of Artificial Intelligence and Data Science, St.Joseph's Institute of Technology, Chennai-600119, Tamilnadu, India ---------- ----------

(57) Abstract :
A solution this invention provides to address the global problem of water scarcity and inefficiency in agricultural irrigation. The system is equipped with Internet of Things (IoT) sensors and Artificial Intelligence (AI), which can monitor water usage in real time, make an intelligent control algorithm so that the correct amount of water for each crop. It continuously monitors environmental variables like soil moisture, temperature, humidity and weather conditions. Powered by AI, it processes historical and real-time data to anticipate which plant will require irrigation so as more water is not supplied than needed or less. The precision irrigation system gets water to where it is needed most is plant root zones, reducing evaporation and runoff while tailoring the application by crop requirements and soil conditions. The system can operate automatically requiring as little human intervention as possible while offering remote monitoring and control using an intuitive interface. The answer is especially useful in areas affected by water shortages, such as increasing the crop yield for other crops and also promoting sustainable agriculture. That kind of scalability, versatility and AI-based learning is tremendously important for modern agriculture especially in a world where climate change plus an insatiable thirst are playing havoc on global water needs.

No. of Pages : 25 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :28/01/2024

(21) Application No.202421005559 A
(43) Publication Date : 23/02/2024

(54) Title of the invention : E-COMMERCE ADVANCED INVENTORY MANAGEMENT USING AI-DRIVEN DEMAND FORECASTING IN E-COMMERCE OPERATION

(51) International classification :G06Q0030020000, G06Q0010080000, G06N0020000000, G06Q0001006000, G06N0005040000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)DR. B. SWAMINATHAN
Address of Applicant :ASSISTANT RESEARCH SCIENTIST, DEPARTMENT OF AGRICULTURAL ECONOMICS, JUNAGADH AGRICULTURAL UNIVERSITY, JUNAGADH - 362001, GUJARAT, INDIA. ---------- ----------
2)DR. S. AISWARYA
3)DR.S.VENNILAA SHREE
4)DR.A.MEENAKSHI
5)DR. M. PRATHAPAN
6)DR. N. TAIBANGNGANBI
7)DR. VEERAMANI G
8)DR.P.SUNANTHA
9)DR. RADHIKA R
10)DR.M.SENTHIL
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
1)DR. B. SWAMINATHAN
Address of Applicant :ASSISTANT RESEARCH SCIENTIST, DEPARTMENT OF AGRICULTURAL ECONOMICS, JUNAGADH AGRICULTURAL UNIVERSITY, JUNAGADH - 362001, GUJARAT, INDIA. ---------- ----------
2)DR. S. AISWARYA
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMMERCE (CS), VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES(VISTAS), PALLAVARAM, CHENNAI-600117, TAMILNADU, INDIA. ---------- ----------
3)DR.S.VENNILAA SHREE
Address of Applicant :PROFESSOR AND HEAD, DEPARTMENT OF COMMERCE(CS), VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES(VISTAS), PALLAVARAM, CHENNAI-600117, TAMILNADU, INDIA. ---------- ----------
4)DR.A.MEENAKSHI
Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF COMMERCE (CS), VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES(VISTAS), PALLAVARAM, CHENNAI-600117, TAMILNADU, INDIA. ---------- ----------
5)DR. M. PRATHAPAN
Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT COMMERCE (CS), VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES(VISTAS), PALLAVARAM, CHENNAI-600117, TAMILNADU, INDIA. ---------- ----------
6)DR. N. TAIBANGNGANBI
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMMERCE (CS), VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES(VISTAS), PALLAVARAM, CHENNAI-600117, TAMILNADU, INDIA. ---------- ----------
7)DR. VEERAMANI G
Address of Applicant :ASSOSCIATE PROFESSOR, DEPARTMENT OF MANAGEMENT STUDIES, SCHOOL OF MANAGEMENT, VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES(VISTAS), PALLAVARAM, CHENNAI-600117, TAMILNADU, INDIA. ---------- ----------
8)DR.P.SUNANTHA
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMMERCE (CS), VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES(VISTAS), PALLAVARAM, CHENNAI-600117, TAMILNADU, INDIA. ---------- ----------
9)DR. RADHIKA R
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMMERCE, BS ABDUR RAHMAN CRESCENT INSTITUTE OF SCIENCE AND TECHNOLOGY, VANDALUR, CHENNAI – 600048, TAMILNADU, INDIA. ---------- ----------
10)DR.M.SENTHIL
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMMERCE (CS), VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES(VISTAS), PALLAVARAM, CHENNAI-600117, TAMILNADU, INDIA. ---------- ----------

(57) Abstract :
The proposed system and method revolutionize inventory management in e-commerce operations by integrating advanced artificial intelligence (AI) techniques. The system comprises an AI-driven demand forecasting module, real-time data analysis component, and inventory optimization engine. Leveraging machine learning algorithms, it accurately predicts customer demand, taking into account historical sales data, seasonality, external variables, and customer behaviors. This scalable solution adapts to businesses of all sizes and enhances customer satisfaction through optimized product availability and timely order fulfillment. It minimizes overstocking and waste, thereby promoting sustainability and profitability. The invention represents a shift towards data-driven decision-making in the e-commerce sector and has the potential to reshape the industry while fostering economic growth. Instructions for implementing the system are stored on a computer-readable storage medium.

No. of Pages : 18 No. of Claims : 10

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Ministry of Commerce & Industry,
Government of India

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(http://ipindia.nic.in/index.htm)

Application Details	
APPLICATION NUMBER	202421027957
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	04/04/2024
APPLICANT NAME	1 . Dr. Shiva Johri 2 . Dr. Srikanth V 3 . Dr. S. Perumal 4 . Dr. Nandini G Devarmani 5 . Prabhakaran.V 6 . Dhruvi Pankajkumar Suthar 7 . Namrata Harshadbhai Gohel 8 . Prof. Archana Jethava 9 . Prof. Yesha Patel 10 . Dr. Dushyantsinh B. Rathod
TITLE OF INVENTION	ANALYSIS AND DETECTION OF FAKE AND COUNTERFEIT CURRENCY WITH MACHINE LEARNING AND DEEP LEARNING MODEL
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	senanipindia@gmail.com
ADDITIONAL-EMAIL (As Per Record)	

E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	03/05/2024

Application Status	
APPLICATION STATUS	**Awaiting Request for Examination**

View Documents

Filed → Published → RQ Filed → Under Examination → Disposed

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Application Details	
APPLICATION NUMBER	202421054692
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	17/07/2024
APPLICANT NAME	1 . Esakkiammal S 2 . Dr. Murugan P 3 . Dr. Vijayakumar S 4 . Dr. Vinayagam K 5 . Dr. Ganesa Murthy A 6 . Dr. Arulselvi V 7 . Dr. Ashok Kumar Katta 8 . Sureshkumar A 9 . Dr Prakash P
TITLE OF INVENTION	LEVERAGING DEEP LEARNING AND MACHINE LEARNING FOR ENHANCED CITIZEN ENGAGEMENT IN E-GOVERNANCE SYSTEMS
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	patents@allinnov.org
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	

PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	09/08/2024

Application Status	
APPLICATION STATUS	**Awaiting Request for Examination**

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Ministry of Commerce & Industry,
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Application Details	
APPLICATION NUMBER	202421056762
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	25/07/2024
APPLICANT NAME	1 . Dr. Murlidhar Keshaorao Rahangdale 2 . Dr Ashok Nivrutti Bhavale 3 . Dr. Anil Kumar 4 . MRS R.Vimala 5 . Mr. Vaibhav Vishnu Ubale 6 . Dr Kamatchi Hariharan M 7 . Dr. D. Rajinigirinath
TITLE OF INVENTION	SUSTAINABLE RECYCLING TECHNOLOGIES FOR LITHIUM, NICKEL, AND COBALT IN ELECTRIC VEHICLE BATTERY LIFE-CYCLE MANAGEMENT
FIELD OF INVENTION	MECHANICAL ENGINEERING
E-MAIL (As Per Record)	volksphantomip@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	

REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	08/11/2024

Application Status	
APPLICATION STATUS	**Awaiting Request for Examination**

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Ministry of Commerce & Industry,
Government of India

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Application Details	
APPLICATION NUMBER	202421062162
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	16/08/2024
APPLICANT NAME	1 . Dr.G.Sunil Kumar 2 . Mr.G.Silambarasan 3 . Banoth Prasad 4 . Sanjeet Kumar Borah 5 . Dr.K Prakash 6 . Dr.M. Sudharsan 7 . Mr.N.Gokulnath 8 . Dr S Mangayarkarasi
TITLE OF INVENTION	DEVELOPMENT OF SMART AUTONOMOUS WATER QUALITY ANALYSIS VEHICLE (AQV) USING IOT AND AI STRATEGIES IN REAL TIME POND SURFACE
FIELD OF INVENTION	CHEMICAL
E-MAIL (As Per Record)	patent.vaagaiip@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	

PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	04/10/2024

Application Status	
APPLICATION STATUS	**Awaiting Request for Examination**

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Ministry of Commerce & Industry,
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Application Details	
APPLICATION NUMBER	202421076338
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	08/10/2024
APPLICANT NAME	1 . Dr. Sunil Kumar Gaddam 2 . Neena.P 3 . Dr. Santosh Kumar Singh 4 . Dr Manikandan N 5 . Neetu Singh 6 . Dr. A. Selvaraj
TITLE OF INVENTION	OPTIMISING EV CHARGING STATION OPERATIONS USING IOT, CLOUD COMPUTING, AND MACHINE LEARNING FOR ECO-FRIENDLY TRANSPORTATION
FIELD OF INVENTION	ELECTRICAL
E-MAIL (As Per Record)	patent.vaagaiip@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	15/11/2024

Application Status

APPLICATION STATUS	Awaiting Request for Examination

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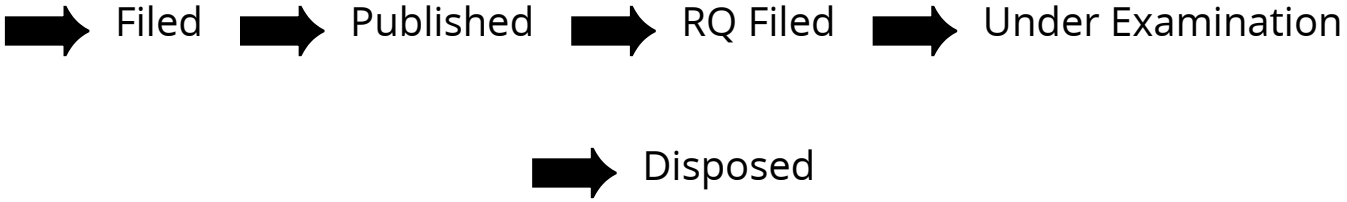

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Application Details	
APPLICATION NUMBER	202421098026
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	11/12/2024
APPLICANT NAME	1 . Dr.Prashant Dnyaneshwar Kamble 2 . Dr. P. Palanivel 3 . Dr.E.Vani 4 . Mrs PRIYA.S 5 . Dr.N.Kalpana 6 . A.Senthilnathan 7 . Dr. Vijayalakshmi.P 8 . Dr.B.Antline Nisha 9 . M.Thiyagarajan 10 . Dr. Vikram Kedambadi Vasu
TITLE OF INVENTION	Optimizing Energy Conversion Efficiency in Organic Solar Cells Using AI Technologies
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	patentrficare@gmail.com
ADDITIONAL-EMAIL (As Per Record)	padhu003@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	17/01/2025

Application Status	
APPLICATION STATUS	Awaiting Request for Examination

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Ministry of Commerce & Industry,
Government of India

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Application Details	
APPLICATION NUMBER	202431101946
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	23/12/2024
APPLICANT NAME	1 . Dr. Sandip Haldar 2 . Kodanda Rami Reddy Manukonda 3 . Dr. N.B. Mahesh Kumar 4 . Shweta Amar Satao 5 . Dr. Surendra Singh Chauhan 6 . Mr.Irshad Khan 7 . Priyadharshini.SP 8 . Vaibhav Srivastav 9 . N. Kavitha 10 . Mrs.P.V.Hemavathi
TITLE OF INVENTION	Artificial Intelligence-Enhanced Smart Farming System for Precision Irrigation Using Soil Moisture Data and Machine Learning Models
FIELD OF INVENTION	MECHANICAL ENGINEERING
E-MAIL (As Per Record)	senanipindia@gmail.com
ADDITIONAL-EMAIL (As Per Record)	editorsipofficial@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	03/01/2025

Application Status	
APPLICATION STATUS	**Awaiting Request for Examination**

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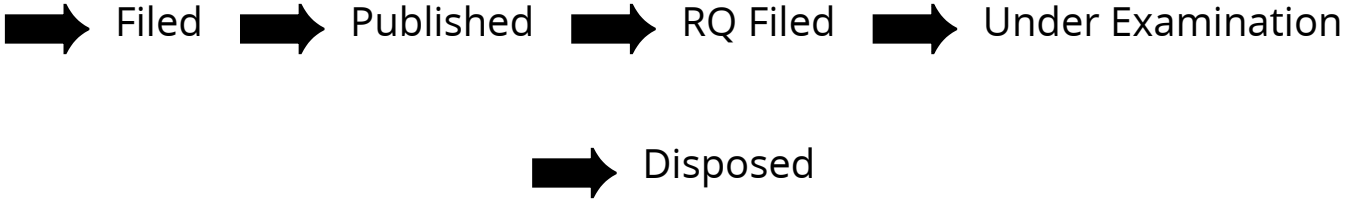

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शासकीय जर्नल

OFFICIAL JOURNAL
OF
THE PATENT OFFICE

निर्गमन सं. 06/2024	शुक्रवार	दिनांक: 09/02/2024
ISSUE NO. 06/2024	FRIDAY	DATE: 09/02/2024

पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/01/2024

(21) Application No.202441001483 A
(43) Publication Date : 09/02/2024

(54) Title of the invention : SESBANIA GRANDIFLORA: A TREASURE TROVE OF THERAPEUTIC COMPOUNDS - ALKALOIDS, FLAVONOIDS, AND ANTIOXIDANT ACTIVITY REVEALED

(51) International classification	:A61K36/48, B01D11/00, G01N30/06, G01N30/14, G01N30/34
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
1)Dr. Sayeeda Sultana
Address of Applicant :Professor and Head Department of Chemistry St. Peter's Institute of Higher Education and Research,Avadi, Chennai 600 054 Tamil Nadu, India ---------- ----------
2)Mr. C. Sakthivel
3)Dr. M. Priya
4)Dr. Gokul Raghavendra Srinivasan
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)Dr. Sayeeda Sultana
Address of Applicant :Professor and Head Department of Chemistry St. Peter's Institute of Higher Education and Research,Avadi, Chennai 600 054 Tamil Nadu, India ---------- ----------
2)Mr. C. Sakthivel
Address of Applicant :Assistant Professor Department of Chemistry St. Peter's Institute of Higher Education and Research,Avadi, Chennai 600 054 Tamil Nadu, India ---------- ----------
3)Dr. M. Priya
Address of Applicant :Assistant Professor School of Basic Science, Department of Chemistry Vels Institute of Science, Technology and Advanced Studies, Pallavaram, Chennai-600 117,India ---------- ----------
4)Dr. Gokul Raghavendra Srinivasan
Address of Applicant :Research Scientist and Technical Analyst Department of Research and Development Steamax Envirocare Private Limited, Vikaspuri Delhi-110018, India ---------- ----------

(57) Abstract :
ABSTRACT Sesbania Grandiflora: A Treasure Trove of Therapeutic Compounds - Alkaloids, Flavonoids, and Antioxidant Activity Revealed Plants and their different parts have shown therapeutic actions. This property has been made use of in ayurveda with the identification of active components. Similarly plants part in whole form has also been used for therapeutic action. In this project work this property has been utilized in the identification of therapeutic action of Sesbania Grandiflora (Agathikeerai) by identifying the active components using column chromatography technique various components such as alkaloids, flavanoids and nitric oxide free radical scavenging activity have been separated with the use of different combination of polar and non polar solvents. The results obtained clearly indicate the therapeutic action of Sesbania Grandiflora (Agathikeerai) due to the presence of alkaloids, flavanoids and antioxidant property. Further studies on these points have to carried out on clinical trial basis using animal experiments and with satisfactory results obtained can be extended to various medicinal use.

No. of Pages : 23 No. of Claims : 7

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सत्यमेव जयते

G.A.R.6
[See Rule 22(1)]
RECEIPT

Docket No 3732 **Date/Time 2024/01/08 19:04:26**

To
Dr. Sayeeda Sultana, Professor and Head, Department of Chemistry, St. Peter's Institute of Higher Education and Research, Avadi, Chennai 600 054, Tamil Nadu, India, INDIA.

CBR Detail:

Sr. No.	Ref. No./Application No.	App. Number	Amount Paid	C.B.R. No.	Form Name	Remarks
1	TEMP/E1/1395/2024-CHE	202441001483	1600	1513	FORM 1	Sesbania Grandiflora: A Treasure Trove of Therapeutic Compounds - Alkaloids, Flavonoids, and Antioxidant Activity Revealed
2	E12/277/2024/CHE	202441001483	2500	1513	FORM 9	----

TransactionID	Payment Mode	Challan Identification Number	Amount Paid	Head of A/C No
N-0001296549	Online Bank Transfer	0801240042814	4100.00	1475001020000001

Total Amount : ₹ 4100

Amount in Words: Four Thousand One Hundred Only

Received from Saurabh Kumar Jain the sum of ₹ 4100 on account of Payment of fee for above mentioned Application/Forms.

* This is a computer generated receipt, hence no signature required.

Print

“FORM 1 THE PATENTS ACT 1970 (39 of 1970) and THE PATENTS RULES, 2003 APPLICATION FOR GRANT OF PATENT (See section 7, 54 and 135 and sub-rule (1) of rule 20	(FOR OFFICE USE ONLY)

Application No.	
Filing date:	
Amount of Fee paid:	
CBR No:	
Signature:	

1. APPLICANT’S REFERENCE / IDENTIFICATION NO. (AS ALLOTTED BY OFFICE)	

2. TYPE OF APPLICATION [Please tick ( ) at the appropriate category

Ordinary (√)		Convention (x)	PCT-NP (x)		
Divisional ()	Patent of Addition ( )	Division ( )	Patent of addition ()	Division ( )	Patent of Addition ( )

3A. APPLICANT(S)

Name in Full	Nationality	Country of Residence	Address of the Inventor	
Dr. Sayeeda Sultana	INDIAN	INDIA	House No.	Professor and Head, Department of Chemistry St. Peter's Institute of Higher Education and Research
			Street	
			City	Avadi, Chennai
			State	Tamil Nadu
			Country	India
			Pin code	600 054
Mr. C. Sakthivel	INDIAN	INDIA	House No.	Assistant Professor Department of Chemistry St. Peter's Institute of Higher Education and Research
			Street	
			City	Avadi, Chennai
			State	Tamil Nadu
			Country	India
			Pin code	600 054
Dr. M. Priya	INDIAN	INDIA	House No.	Assistant Professor School of Basic Science, Department of Chemistry Vels Institute of Science, Technology and Advanced Studies
			Street	
			City	Pallavaram, Chennai
			State	Tamil Nadu
			Country	India
			Pin code	600 117
Dr. Gokul Raghavendra Srinivasan	INDIAN	INDIA	House No.	Research Scientist and Technical Analyst Department of Research and Development Steamax Envirocare Private Limited
			Street	
			City	Vikaspuri
			State	Delhi
			Country	India
			Pin code	110018

Natural Person (√)	Other than natural Person		
	Small Entity (x)	Startup (x)	Others (x)

4. INVENTOR(S) [Please tick at the appropriate category]		
Are all the inventor(s) same as the applicant(s) named above?	Yes (√)	
If "No", furnish the details of the inventor(s)		

5. TITLE OF THE INVENTION

Sesbania Grandiflora: A Treasure Trove of Therapeutic Compounds - Alkaloids, Flavonoids, and Antioxidant Activity Revealed

6. AUTHORISED REGISTERED PATENT AGENT	**IN/PA No.**	**- NA-**
	Name	
7. ADDRESS FOR SERVICE OF APPLICANT IN INDIA	**Name**	**Dr. Sayeeda Sultana**
	Postal Address	**Professor and Head Department of Chemistry St. Peter's Institute of Higher Education and Research, Avadi, Chennai 600 054 Tamil Nadu, India**
	Telephone No.	
	Mobile No.	**98849 45444**
	Fax No.	
	E-mail ID	**sayeeda2006@yahoo.com**

8. IN CASE OF APPLICATION CLAIMING PRIORITY OF APPLICATION FILED IN CONVENTION COUNTRY, PARTICULARS OF CONVENTION APPLICATION

Country	Application Number	Filing date	Name of the applicant	Title of the invention	IPC (as classified in the convention country)
NA	NA	NA	NA	NA	NA

9. IN CASE OF PCT NATIONAL PHASE APPLICATION, PARTICULARS OF INTERNATIONAL APPLICATION FILED UNDER PATENT CO-OPERATION TREATY (PCT)

International application number	International filing date
NA	NA

10. IN CASE OF DIVISIONAL APPLICATION FILED UNDER SECTION 16, PARTICULARS OF ORIGINAL (FIRST) APPLICATION

Original (first) application No.	Date of filing of original (first) application
NA	NA

11. IN CASE OF PATENT OF ADDITION FILED UNDER SECTION 54, PARTICULARS OF MAIN APPLICATION OR PATENT : NA

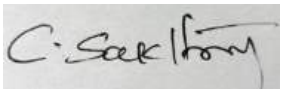
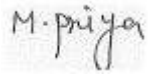
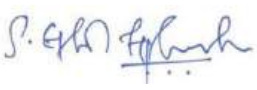
Main application/patent No. : NA	Date of filing of main application : NA

12. DECLARATIONS

(i) Declaration by the inventor(s)

(In case the applicant is an assignee: the inventor(s) may sign herein below or the applicant may upload the assignment or enclose the assignment with this application for patent or send the assignment by post/electronic transmission duly authenticated within the prescribed period).

We, the above named inventor(s) are the true & first inventor(s) for this Invention and declare that the applicant(s) herein are our assignee or legal representative.

NAME	SIGNATURE	DATE
Dr. Sayeeda Sultana		06/01/2024
Mr. C. Sakthivel		06/01/2024
Dr. M. Priya		06/01/2024
Dr. Gokul Raghavendra Srinivasan		06/01/2024

(ii) Declaration by the applicant(s) in the convention country

(In case the applicant in India is different than the applicant in the convention country: the applicant in the convention country may sign herein below or applicant in India may upload the assignment from the applicant in the convention country or enclose the said assignment with this application for patent or send the assignment by post/electronic transmission duly authenticated within the prescribed period)

We, the applicant(s) in the convention country declare that the applicant(s) herein are our assignee or legal representative.
(a) Date
(b) Signature(s) -------NA----------
(c) Name(s) of the signatory

(iii) Declaration by the applicant(s)

- We the applicant(s) hereby declare(s) that: -
- We are in possession of the above-mentioned invention.
- The ~~provisional~~/complete specification relating to the invention is filed with this application.
- ~~The invention as disclosed in the specification uses the biological material from India and the necessary permission from the competent authority shall be submitted by me/us before the grant of patent to me/us.~~
- There is no lawful ground of objection(s) to the grant of the Patent to me/us.
- We are the true & first inventor(s).
- We are the assignee or legal representative of true & first inventor(s).
- ~~The application or each of the applications, particulars of which are given in Paragraph-8, was the first application in convention country/countries in respect of our invention(s).~~
- ~~We claim the priority from the above mentioned application(s) filed in convention country/countries and state that no application for protection in respect of the invention had been made in a convention country before that date by me/us or by any person from which I/We derive the title.~~
- ~~Our application in India is based on international application under Patent Cooperation Treaty (PCT) as mentioned in Paragraph-9.~~
- ~~The application is divided out of my /our application particulars of which is given in Paragraph-10 and pray that this application may be treated as deemed to have been filed on DD/MM/YYYY under section 16 of the Act.~~
- ~~The said invention is an improvement in or modification of the invention particulars of which are given in Paragraph-11.~~

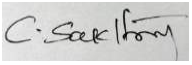
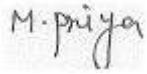
13. FOLLOWING ARE THE ATTACHMENTS WITH THE APPLICATION (a) Form 2

Item	Details	Fee	Remarks
Complete specification	No. of pages : 21		
No. of Claim(s)	No. of claims : 07 and No. of pages :01		
Abstract	No. of pages :01		
No. of Drawing(s)	No. of drawings :-- and No. of pages:--		

~~# In case of a complete specification, if the applicant desires to adopt the drawings filed with his provisional specification as the drawings or part of the drawings for the complete specification under rule 13(4), the number of such pages filed with the provisional specification are required to be mentioned here.~~

~~(b) Complete specification (in conformation with the international application)/as amended before the International Preliminary Examination Authority (IPEA), as applicable (2 copies).~~
~~(c) Sequence listing in electronic form~~
~~(d) Drawings (in conformation with the international application)/as amended before the International Preliminary Examination Authority (IPEA), as applicable (2 copies).~~
~~(e) Priority document(s) or a request to retrieve the priority document(s) from DAS (Digital Access Service) if the applicant had already requested the office of first filing to make the priority document(s) available to DAS.~~
~~(f) Translation of priority document/Specification/International Search Report/InternationalPreliminary Report on Patentability.~~
(g) Statement and Undertaking on Form 3
(h) Declaration of Inventorship on Form 5
(j)……..
Total fee

We hereby declare that to the best of our knowledge, information and belief the fact and matters slated herein are correct and We request that a patent may be granted to us for the said invention.

NAME	SIGNATURE	DATE
Dr. Sayeeda Sultana		06/01/2024
Mr. C. Sakthivel		06/01/2024
Dr. M. Priya		06/01/2024
Dr. Gokul Raghavendra Srinivasan		06/01/2024

To
The Controller of patents, The Patent office at Mumbai, Chennai, New Delhi, Kolkata

FORM 2

THE PATENTS ACT, 1970

(39 of 1970)

&

THE PATENTS RULES, 2003

PROVISIONAL/COMPLETE SPECIFICATION

(*See* section 10 and rule 13)

Sesbania Grandiflora: A Treasure Trove of Therapeutic Compounds - Alkaloids, Flavonoids, and Antioxidant Activity Revealed

Name	Address	Nationality
Dr. Sayeeda Sultana	Professor and Head Department of Chemistry St. Peter's Institute of Higher Education and Research,Avadi, Chennai 600 054 Tamil Nadu, India	Indian
Mr. C. Sakthivel	Assistant Professor Department of Chemistry St. Peter's Institute of Higher Education and Research,Avadi, Chennai 600 054 Tamil Nadu, India	Indian
Dr. M. Priya	Assistant Professor School of Basic Science, Department of Chemistry Vels Institute of Science, Technology and Advanced Studies, Pallavaram, Chennai-600 117,India	Indian
Dr. Gokul Raghavendra Srinivasan	Research Scientist and Technical Analyst Department of Research and Development Steamax Envirocare Private Limited, Vikaspuri Delhi-110018, India	Indian

The following specification particularly describes the invention and the manner in which it is to be performed**.**

TECHNICAL FIELD OF INVENTION

The present invention relates to the novel use of SESBANIA GRANDIFLORA extracts derived therefrom, More particularly, the present invention utilized in the identification of therapeutic action of Sesbania Grandiflora (Agathikeerai) by identifying the active components using column chromatography technique various components such as alkaloids, flavanoids and nitric oxide free radical scavenging activity have been separated with the use of different combination of polar and non polar solvents. The results obtained clearly indicate the therapeutic action of Sesbania Grandiflora (Agathikeerai) due to the presence of alkaloids, flavanoids and antioxidant property

BACKGROUND AND PROBLEM WITH EXISTING ART

Cosmetic products, which enhance the appearance of skin, are increasingly in demand. Consumers are interested in mitigating or delaying the signs of chronologically or hormonally aged skin, as well as seeking alternatives to the costly and sometimes risky medical techniques currently available. Among the various changes that occur with dermatological aging, is the gradual loss of fat in the skin. The loss of fat, and in particular, facial fat, can result in a variety of undesireable conditions or symptoms including, for example, sagging skin, deepening appearance of wrinkles, dry skin, lack of skin tone, firmness, or plumpness, and thinning skin. The stimulation of fat production by novel materials is a desired benefit in cosmetic products to address such problems.

Active ingredients derived from plants and plant seeds have commonly been employed in topical compositions for a myriad of medicinal, therapeutic and cosmetic purposes. Such actives can be obtained from various parts of a plant such as seeds, needles, leaves, roots, bark, cones, stems, rhizomes, callus cells, protoplasts, organs and organ systems, and meristems. Active ingredients are incorporated in such

compositions in a variety of forms. Such forms include a pure or semi-pure component, a solid or liquid extract or derivative, or a solid plant matter. Plant matter may be minced, ground, crushed, or otherwise physically modified for incorporation into a composition. The functional use of these materials to stimulate lipogenensis is novel and useful for the cosmetic industry.

Nature, the master craftsman of molecules created almost an inexhaustible array of molecular entities. It stands as an infinite resource for drug development, novel chemotypes and pharmacophores, and scaffolds for amplification into efficacious drugs for a multitude of disease indications and other valuable bioactive agents. Although the use of bioactive natural products as herbal drug preparations dates back hundreds, even thousands of years ago, their application as isolated and characterized compounds to modern drug discovery and development started only in the 19th century. It has been well documented that natural products played critical roles in modern drug development, especially for antibacterial and antitumor agents. Even though popularity of the synthetic products increased due to its production cost, time effectiveness, easy quality control, stringent regulation and quick effects, their safety and efficacy was always remained questionable. This resulted in the dependence on the natural products by more than 80% of the total population in the developing world, because of their time tested safety and efficacy. The use of plants and plant based products for cancer treatment is rapidly growing in medical practices. One such plant source is Sesbania grandiflora. In many parts of Southeast Asian countries, the flowers and leaves of S. grandiflora are used in medicine as well as in traditional food. Hippocrates is quoted as saying, "let your food be your medicine and let your medicine be your food." Most of the chemotherapeutic drugs used today are inadequate not only in terms of their therapeutic efficacy but also because they have undesirable side effects. Thus, there is a strong need to have a compound that offers good therapeutic efficacy without any undesirable side effects.

WO2019082541A1: This patent describes a method for creating a composition containing Sesbania grandiflora leaf extract and its use for treating diabetic complications. It claims the extract can help manage blood sugar levels and prevent diabetic neuropathy.

WO2012054916A1: This patent focuses on a composition containing Sesbania grandiflora extract and its use as an anti-inflammatory and pain-relieving agent. It suggests the extract could be used for treating conditions like arthritis and muscle pain.

WO2010060574A1: This patent claims Sesbania grandiflora leaf extract has antifungal properties and can be used in compositions to fight fungal infections.

WO2005043051A1: This patent highlights a novel cyclopeptide found in Sesbania grandiflora seeds and its potential as an inhibitor of HIV-1 integrase, a crucial enzyme in the virus's lifecycle.

IN2015260201A: This Indian patent details a process for extracting anti-arthritic compounds from Sesbania grandiflora leaves and the isolated compounds themselves. These compounds could be used to develop new treatments for arthritis.

IN2011100455A: This patent claims a bioadhesive composition containing Sesbania grandiflora leaf extract that can be used for oral delivery of drugs. This could improve drug absorption and effectiveness.

IN2005030129A: This Indian patent focuses on a process for preparing an anti-neoplastic (cancer-fighting) composition from Sesbania grandiflora seeds. The patent doesn't specify the exact mechanism of action but suggests potential for cancer treatment.

US8921109B2: This US patent describes a composition and method for treating hypertension using Sesbania grandiflora leaf extract. It suggests the extract can help lower blood pressure and improve cardiovascular health.

US7608405B2: This US patent claims a bioactive composition derived from Sesbania grandiflora leaves can be used to treat inflammation. It might be beneficial for conditions like inflammatory bowel disease or skin conditions.

US6720191B1: This US patent focuses on a method for reducing blood glucose levels using an extract of Sesbania grandiflora leaves. This could be relevant for managing diabetes and preventing its complications.

Alkaloids:

- Karmakar et al. (2023): "Phytochemical screening of leaves and flower extracts of Sesbania grandiflora (L.) Pers. and its antimicrobial activity against fish pathogens"
    - This study identified various alkaloids in Sesbania Grandiflora extracts, including benzylisoquinoline alkaloids like N-methylcytisine and lycorine. These alkaloids showed promising antimicrobial activity against fish pathogens.
- Umamaheswari and Peo (2014): "Effect of Sesbania grandiflora leaf extract on lipopolysaccharide-induced inflammatory mediators in RAW 264.7 macrophages"
    - This paper focused on the anti-inflammatory potential of Sesbania Grandiflora leaves. The extract inhibited the production of inflammatory mediators like nitric oxide and prostaglandin E2, suggesting the involvement of alkaloids in the mechanism.

Flavonoids:

- Saifudin et al. (2020): "Bioprospecting for anti-Streptococcus mutans: the activity of 10% Sesbania grandiflora flower extract comparable to erythromycin"
    - This study investigated the antibacterial activity of Sesbania Grandiflora against the dental caries-causing bacterium Streptococcus mutans. The extract's effectiveness was attributed to the presence of flavonoids like myricetin and quercetin.

- Devi Rajeswari and Babujanarthanam (2019): "Medicinal Properties of the Sesbania grandiflora Leaves"
    - This review article discusses the various medicinal properties of Sesbania Grandiflora leaves, including its antioxidant and anti-inflammatory effects. It highlights the role of flavonoids in contributing to these activities.

Antioxidant Activity:

- Sundaram et al. (2019): "Evaluation of in vitro antioxidant potential and phytochemical characterization of Sesbania grandiflora (L.) Pers. leaf extracts"
    - This study evaluated the antioxidant activity of Sesbania Grandiflora leaf extracts using various assays. The results showed significant scavenging activity against free radicals, attributed to the presence of flavonoids, phenolic acids, and other antioxidants.
- Vaseeharan and Thaya (2014): "In vitro free radical scavenging and antimicrobial activities of extracts of Sesbania grandiflora (L.) Pers."
    - This paper confirms the potent antioxidant activity of Sesbania Grandiflora extracts and suggests their potential use in natural antioxidant supplements.

OBJECTS OF THE INVENTION

The present invention is to prepare powder of AgathiKeerai (Sesbania Grandiflora) available in local area. They have exceptional mechanical properties, highly chemical stability and large specific surface area.So, the powder has attracted researchers' interest to identify the phyto chemicals which are responsible for the foresaid properties.

In the present invention, AgathiKeerai (Sesbania Grandiflora) was collected, dried and powdered. The powder was soaked in water for a week and subjected to Soxhlet extraction. The extract was collected and the number of components present in the extract was identified by Thin layer chromatography. Then the extract was subjected to column chromatography using various eluents. The fraction which gave only

one spot on TLC is investigated to identify the nature of the compound. Then the estimation of the components were carried out. The anti-oxidant property of the extracted compound was also evaluated.

SUMMARY OF THE INVENTION

In the present study *Sesbania Grandiflora* was collected, dried and powdered. The powder was subjected to Soxhlet extraction using water as solvent. The extract was concentrated and the constituents were separated by column chromatography using Petroleum ether,10% Benzene in Petroleum ether, 50% Benzene in Petroleum ether,100% Benzene,10% chloroform in Benzene, 50% chloroform in Benzene, and 100% chloroform as eluent. The various fractions were collected and TLC was run with chloroform as developing solvent. The fraction which gave only one spot in TLC testwas used to identify the specific constituent. Test for alkaloid, flavonoids, and terpenoids were carried out.

The phyto chemical analysis shows that it contains alkaloid, flavonoids, and terpenoids.The constituents were estimated using colorimetric method. The anti-oxidant study of the extract was carried out by in- vitro trials. Nitric oxide free radical scavenging characteristics of the extract was determined. Their inhibition towards the free radical produced, were determined using optical density measurements. The values obtained were compared with the standard natural anti-oxidant ascorbic acid. Concentration versus inhibition graphs were drawn. The graphs obtained reveal the fact that the anti-oxidant property is concentration dependent.

. It is necessary to conduct clinical trial study, to support the laboratory analysis of having high antioxidant capacity, there are no clinical trials with this plant on the Indian population, either on healthy or on diseased populations to support its antioxidant claims or its use in any therapeutic condition. Thus efforts need to be directed to assess the pharmacological potential of this plant by clinical trials

DETAILED DESCRIPTION OF PREFERRED EMBODIMENTS

COLLECTION OF PLANT MATERIAL

Fresh plants were collected from a place named Villivakkam,Chennai, Tamil Nadu, India. The Plant was identified by the botanist of Sri Sairam Siddha Medical College, Tambaram, Chennai and a specimen were kept in their laboratory. The leaves were separated, washed under running tap water and shade dried at room temperature. The dried leaves were ground to fine powder using a blender. The powder was preserved in an air tight bottle for further use.

EXTRACTION

The collected material was allowed to dry in sunshade for a week and after that it was crushed and powdered. 30 gm of powder was weighed and soaked in water for 8 days, then it was poured in to Soxhlet apparatus and allowed to boil for one hour. This extract is used for our study.

CHROMATOGRAPHIC SEPERATION

A simple straight glass tube tapered at the bottom was used as column in our study. The adsorbent was supported on a plug of cotton. The cotton piece was kept in position in the tube. The tube was then clamped vertically and adsorbent (silica gel) was added in portions, so that the tube was packed uniformly with the adsorbent. The adsorbent added was pressed from above with the flattened glass rod, before the next portion was added. This was continued till nearly two third of it was filled.

The extract was poured on the top and the column was covered by a plug of cotton wood. Some solvent was put over it through funnel. The developed chromatogram was treated with succession of solvents having increasingly powerful eluent action. The various portions of the column were thus washed out one by one and collected in different receivers. Gradual elution using 500 ml of each solvent and solvent mixture was carried out for the collection of various fractions. The name of the solvents used and the series of fractions collected in this method are given in table 1.

PHYTOCHEMICAL SCREENING

The prepared extracts were subjected to Phyto chemical screening. The following tests were carried out.

Tests for alkaloids (Marquis test)

A small quantity of the extract was placed in a glass plate and allowed to evaporate to dryness. A drop of Marquis reagent ($HgCl_2$ + KCN) was added and the colour was observed. Appearance of Reddish colour which turns blue indicates the presence of alkaloids.

Test for Quinine (Bromine – ammonia test)

To about 10 ml of extract was added with 0.25 ml of Br_2/H_2O was added and shaken well. Then about 2 ml of dil.NH_3 solution was added. No bright colouration shows the presence of quinine.

Test for Morphine (Iodic acid test)

. Morphine liberates iodine from iodic acid which gives blue colouration. 2 ml of extract acidified with sulphuric acid was added to a solution of KIO_3 containing starch. Appearance of deep blue colour indicates the presence of morphine.

Test for Terpenoids (LiebermannBechard test):

2 ml of extract was dissolved in chloroform and to this2 drops of acetic anhydride was added and concentrated sulphuric acid was added along the sides of the test tube and the colour was observed. Appearance of red colour indicates the presence of terpenoids.

Test for Flavonoids (Shinoda's test):

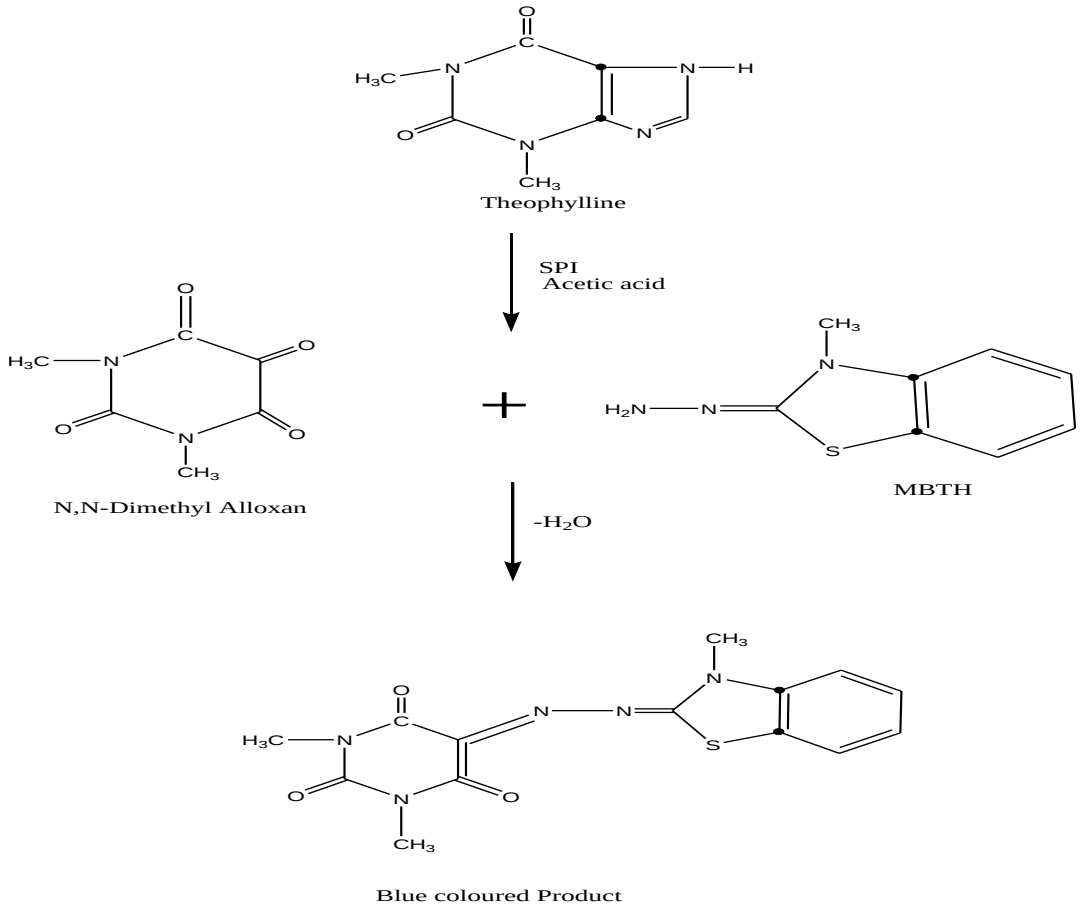
2 ml of extract was warmed and to the warmed solution a piece of Magnesium ribbon was added followed by 2 drops of concentrated HCl drop by drop. Absence of orange or yellow colour indicates the presence of flavonoids.

ESTIMATION OF PHYTO CONSTITUENTS

ESTIMATION OF ALKALOID BY *SINGH MBTH METHOD*

Principle:

Alkaloids are oxidized by sodium meta per iodate under mild acidic conditions to form N, N' – Dimethyl alloxan, which then reacted with 3- Methyl – 2- Benzothiazolinone Hydrazine (MBTH)hydrochloric acid to yield a blue coloured product which can be measured spectrophotometrically at 630 nm.



Reagents:

1. Standard Theophylline : 10 mg of theophylline was dissolved in 20 ml of methanol and diluted to 100 ml with distilled water (1ml = 1 mg). 10 ml of this solution was diluted to 100 ml with distilled water. (1ml = 1 µg)

2. Acetic acid 0.1 M

3. Sodium metaperiodate (SPI) 0.01 M

4. 3- Methyl – 2- Benzothiazolinone Hydrazine (MBTH) (0.1 M)

PROCEDURE

1.0.2,0.3,0.4,0.5,0.6 ml of standard solution was pipetted out in to a series of 50 ml standard flasks.

2. 2 ml of the sample was pipetted out in a separate 50 ml standard flask.

3. To all the flask including the blank 1 ml of 0.01 M SPI and 0.5 ml of 0.1 M acetic acid.were added.

4. All the flasks were kept in a boiling waterbath for 10 minutes.

5. 2 ml of 0.01M MBTH was added into all the flasks and boiled in a waterbath for 2 minutes.

6. All the flasks were cooled and made up to the mark withdistilled water.

7. The Optical Density (OD) of the blue colour formed was measured at 630 nm for all the sample and readings are tabulated in table 4.

8. A graph was plotted bytaking concentration of Theophylline along X-axis and optical density along Y-axis.

9. From the standard curve on the graph, the concentration of unknown sample was calculated.

ESTIMATION OF FLAVONOIDS BY *ZHISHEN $AlCl_3$ METHOD*

Principle:

Flavonoids form pink colouredcomplexwith aluminum chloride in the presence of sodium nitrite and sodium hydroxide which can be measured by spectrophotometrically at 510nm.

Reagents:

1. Standard Rutin :

10 mg of rutin was dissolved in 10ml of ethanol(1ml = 1 mg) and 10 ml of this was made up into 100 ml using same ethanol. (1ml = 1 µg)

2. Sodium nitrite

0.5 gm of sodium nitrite was dissolved in 10 ml of distilled water.

3. Aluminum chloride:

0.1 gm of $AlCl_3.6H_2O$ was dissolved in 10 ml of distilled water.

4. Sodium hydroxide:

0.4 gm of NaOH was dissolved in 10 ml of distilled water.

PROCEDURE

1. 0.5,1.0,1.5,2.0,2.5 ml of standard solution was pipetted out in to a series of 50 ml standard flasks.

2. 2 ml of the sample was pipetted out in a separate 50 ml standard flask.

3. To all the flask including the blank 1 ml of 5% $NaNO_2$ was added and incubated at room temperature for 5 minutes.

4. 2 ml of 10 % $AlCl_3$ solution was added into all the flasks and incubated at room temperature for 6minutes.

6 Then 0.5 ml of 1MNaOH solution was added in all flasks and mixed well.

7. The Optical Density of the pink color formed was measured at 510 nm.

8. A graph was plotted by taking concentration of Rutin along X-axis and optical density along Y- axis.

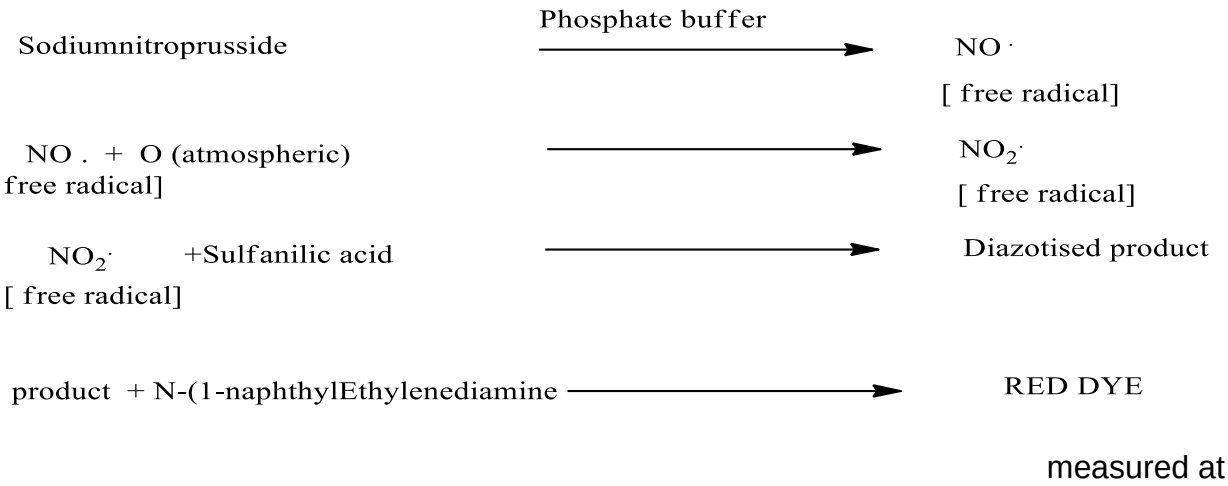
9. From the standard curve on the graph, the concentration of unknown sample was calculated.

ANTIOXIDANT STUDIES

NITRIC OXIDE RADICAL SCAVENGING ASSAY

The principle behind various in-vitro methods of evaluating the antioxidant characteristics of drug is discussed below The procedure is based on the method where sodium nitroprusside in aqueous solution at physiological pH spontaneously generates nitric oxide which interacts with oxygen to produce nitrite ions,this undergo diazoziation with sulphanilinic acid the diazotized product when added with N-napthyl ethylene gives red dye.

CHEMICAL REACTIONS INNITRIC **OXIDE SCAVENGING** ASSAY



measured at 540 nm

Preparation of Reagents:

1.Phosphate buffer saline –100 Mm, pH 7One gram of buffer tablet is dissolved in 100 ml of distilled water.

2. Sodium nitroprusside – 10 m 0.5 gm of sodium nitroprusside was dissolved in 100 ml of water

3. Sulphanilic acid – 0.5% in 20% Glacial acetic aci0.5 g of sulphanilic acid was in 100 ml of 20 % glacial acetic acid.

4. Napthyl Ethylene DiamineDihydrochloride(NEDD) – 0.1% In 0.1 M Hcl.One gram of NEDD was dissolved in 0.1 M hydrochloric acid

CHROMATOGRAPIC SEPARATION

The extract was subjected to column chromatographic separation using Petroleum ether,10%Benzene in Petroleum ether, 50%Benzene in Petroleumether,100%Benzene,10% chloroform in Benzene,50% chloroform in Benzene, and 100%chloroform as eluent. Each fraction was collected separately and a TLC was run with silica gel coated TLC plate.For those fractions which showed a single spot on TLC was collected, dried and weighed. The number TLC spots for various solvent systems and the weight of residue obtained is tabulated in table 1.

TABLE 1

S.NO	Solvent system	Extract	
		TLC spot	Weight of Residue (gm)
1	100 %Petroleum ether	1	0.0164
2	10%BenzeneinPetroleumether	1	0.0197
3	50%BenzeneinPetroleumether	2	0.0342
4	100 %Benzene	1	0.0061
5	10% chloroform in Benzene	2	0.0342
6	50% chloroform in Benzene	1	0.0164
7	100 % chloroform	1	0.0197

PHYTOCHEMICAL SCREENING:

5 ml of extracts were dissolved in 100 ml of ethanol and tested for phytochemical components like alkaloids, Terpenoidsand Flavonoids. The following is the results obtained:

Table: 2 (Phyto chemical screening results)

	Name of the tests	result	Inference
1	Morquies test	**+**	Presence of Alkaloids
3	Bromine – ammonia test	**-**	Absence of quinine
4.	Iodic acid test	**-**	Absence of morphine
5.	LeibermannBuchard test	**-**	Absence of Terpenoids
6	Shinoda's test	**+**	Presence of Flavonoids

The above table shows that the aqueous extract of Sesbania Grandiflora contains alkaloids, and flavonoids

ESTIMATION OF PHYTOCONSTITUENTS

ESTIMATION OF ALKALOID BY *SINGH MBTH METHOD*

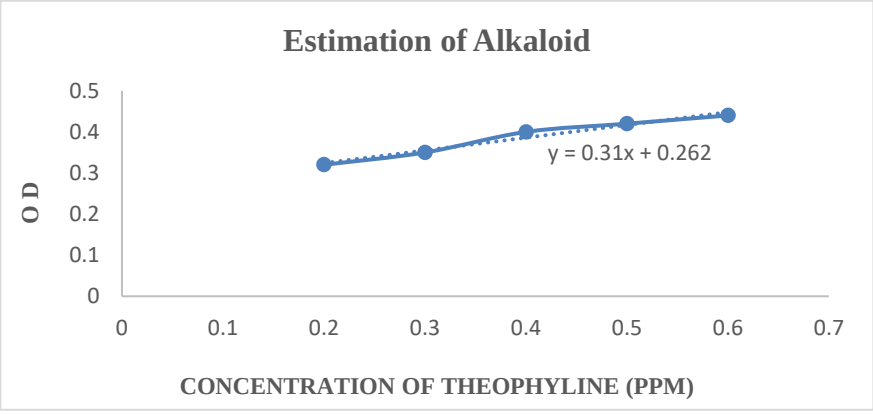
The quantitative determination of alkaloid was carried out by SINGH MBTH method. In this method, a series of theopyline solution were prepared and after adding the required reagents the OD was measured for each concentration. The concentration of theophylline and corresponding optical density values are tabulated in table 3

Table 3:STANDARD: THEOPHLINE

Concentration ofTheophylline(ppm)	OD
0.2	0.32
0.3	0.35
0.4	0.40
0.5	0.42
0.6	0.44
Aqueous extract	0.33

A calibration graph is drawn. By taking- Concentration of theophylline was taken along x-axis and optical density was taken along the Y-axis.

Calibration graph:



The above calibration graph is best fitted to the equation y=0.31x+0.262

X=Y-0.262/0.31 x 100

0.33-0.262/0.31 x 100 = 21.93

Percentage of alkaloid in aqueous extract =21.93 ppm

ESTIMATION OF FLAVANOIDS BY *ZHISHEN $AlCl_3$ METHOD*

The quantitative determination of Flavonoids was carried out by ***ZHISHEN $AlCl_3$*** method. In this method, a series of Rutin solution were prepared and after adding the required reagents the OD was measured for each concentration. The concentration of Rutin and corresponding optical density values are tabulated in table 4

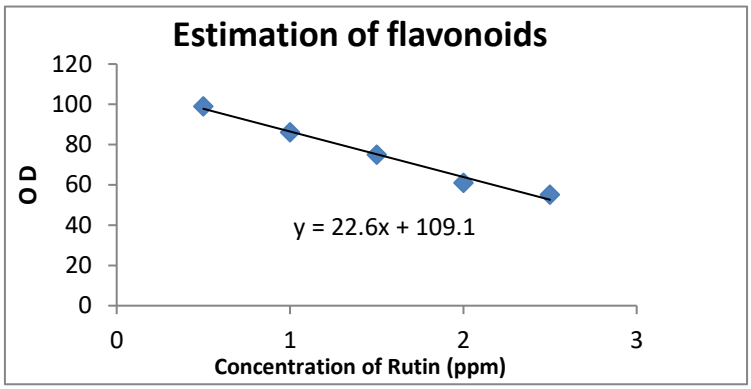
method and a calibration graph isdrawn using Concentration of Rutin and corresponding optical density values which are tabulated in table 4

STANDARD: RUTIN

Volume of rutin (ml)	OD
0.5	99
1.0	86
1.5	75
2.0	61
2.5	55
Aqueous extract	52

A calibration graph is drawn. By taking- Concentration of Rutin was taken along x-axis and optical density was taken along the Y-axis.

Calibration graph:



The above calibration graph is best fitter to the equation y=22.6*x*+ 109.1 from this equation

X=Y-109.1/22.6 x 100

52-109.1/22.6 x 100 = -252.65

Percentage of Flavonoids inaqueous extract = -252.65 ppm

ANTI-OXIDANT STUDIES

NITRIC OXIDE RADICAL SCAVENGING ASSAY OF EXTRACT

The nitric oxide scavenging assay of aqueous extract was studied and the results obtained are tabulated in table 8.

Table 8.Initial OD (A_0)= 20

CONCENTRATION OF EXTRACT (ml)	OPTICAL DENSITY	
	STANDARD (ASCORBIC ACID)	EXTRACT
1	25	22
2	28	24
3	32	28
4	34	31
5	38	35

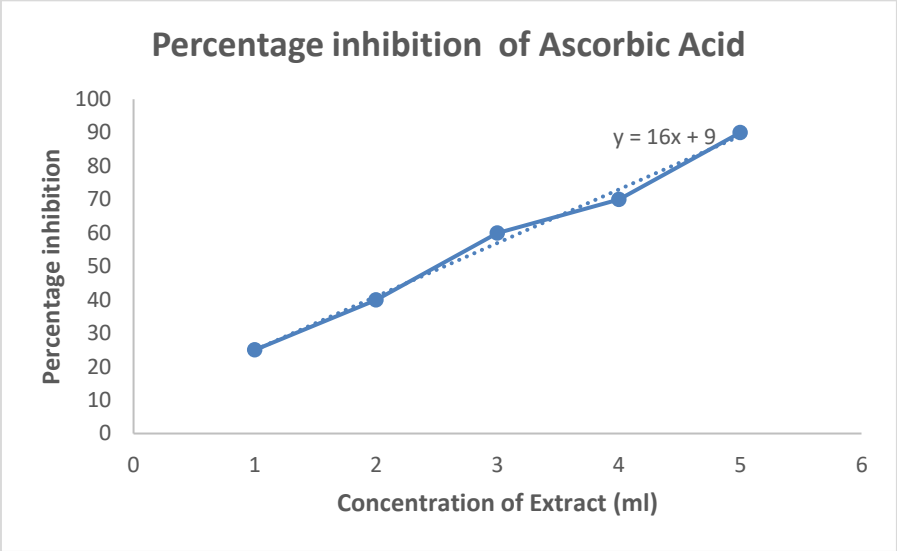
The above table shows the optical density values for standard ascorbic acid, and aqueous extract. The OD Values are plotted against concentration of extracts to find out the concentration dependency of scavenging activity of the extract.

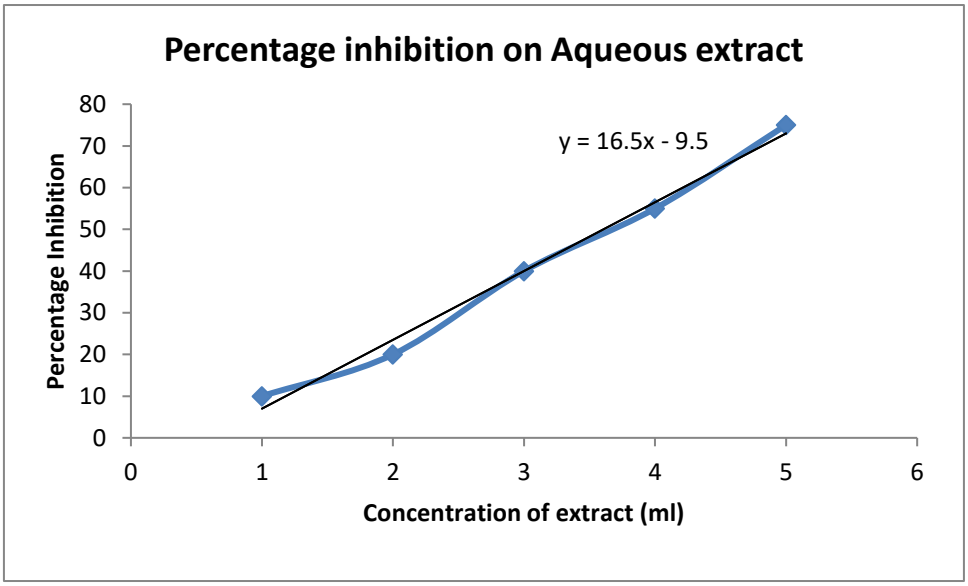
TABLE: 9 CALCULATION OF PERCENTAGE INHIBITION

Using the OD values the percentage inhibition of standard ascorbic acid and aqueous extract be calculated.

CONCENTRATION OF EXTRACT (ml)	Percentage inhibition on Ascorbic acid $\frac{A_1 - A_0}{A_0} \times 100$
1	25
2	40
3	60
4	70
5	90

Initial OD A_0 = 8





Novelty

The prime novelty and claim of the study are the estimation of phytoconstituents and pharmacological evaluation of sesbania grandiflora. The collection of sesbania grandiflora and extraction of their phytochemical constituents are raising those to distinct from other studies. The proposed environment friendly method will bring the easy processing to all the developing countries. Because of their medicinal prospective, the claiming methods have to be protected safely in future.

CLAIMS

1. A method of extraction of sesbania grandiflora, comprising identification, estimation of phytoconstituents and pharmacological evaluation.
2. The method according to claim 1, wherein Sesbania Grandiflora was collected, dried and powdered.
3. The method according to claim 1, wherein the powder was soaked in water for a week and subjected to Soxhlet extraction. The extract was collected and the number of components present in the extract was identified by thin layer chromatography.
4. The method according to claim 1, wherein the extract was concentrated and the constituents were separated by column chromatography using Petroleum ether,10% Benzene in Petroleum ether, 50% Benzene in Petroleum ether,100% Benzene,10% chloroform in Benzene, 50% chloroform in Benzene, and 100% chloroform as eluent.
5. The method according to claim 1, wherein the constituents were estimated using colorimetric method. The anti-oxidant study of the extract was carried out by in- vitro trials. Nitric oxide free radical scavenging characteristics of the extract was determined.
6. The method according to claim 1, wherein the composition is applied to the face and the plant extract stimulates lipid production in the subcutaneous layer of the skin, thereby replacing fat loss due to chronological or hormonal aging
7. The method according to claim 1, wherein the composition comprises a cosmetically or dermatologically acceptable vehicle, carrier or diluent.

ABSTRACT

Sesbania Grandiflora: A Treasure Trove of Therapeutic Compounds - Alkaloids, Flavonoids, and Antioxidant Activity Revealed

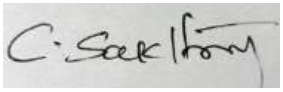
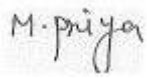
Plants and their different parts have shown therapeutic actions. This property has been made use of in ayurveda with the identification of active components. Similarly plants part in whole form has also been used for therapeutic action. In this project work this property has been utilized in the identification of therapeutic action of Sesbania Grandiflora (Agathikeerai) by identifying the active components using column chromatography technique various components such as alkaloids, flavanoids and nitric oxide free radical scavenging activity have been separated with the use of different combination of polar and non polar solvents. The results obtained clearly indicate the therapeutic action of Sesbania Grandiflora (Agathikeerai) due to the presence of alkaloids, flavanoids and antioxidant property. Further studies on these points have to carried out on clinical trial basis using animal experiments and with satisfactory results obtained can be extended to various medicinal use.

FORM – 3
THE PATENTS ACT 1970
(39 of 1970)
&
The Patent Rules, 2003
STATEMENT AND UNDERTAKING UNDER SECTION 8
(See Section 8, rule 12)

NAME OF APPLICANTS& INVENTORS
Sesbania Grandiflora: A Treasure Trove of Therapeutic Compounds - Alkaloids, Flavonoids, and Antioxidant Activity Revealed

Name	Address	Nationality
Dr. Sayeeda Sultana	Professor and Head Department of Chemistry St. Peter's Institute of Higher Education and Research,Avadi, Chennai 600 054 Tamil Nadu, India	Indian
Mr. C. Sakthivel	Assistant Professor Department of Chemistry St. Peter's Institute of Higher Education and Research,Avadi, Chennai 600 054 Tamil Nadu, India	Indian
Dr. M. Priya	Assistant Professor School of Basic Science, Department of Chemistry Vels Institute of Science, Technology and Advanced Studies, Pallavaram, Chennai-600 117,India	Indian
Dr. Gokul Raghavendra Srinivasan	Research Scientist and Technical Analyst Department of Research and Development Steamax Envirocare Private Limited, Vikaspuri Delhi-110018, India	Indian

Hereby declare, We have not made any application for the same / substantially the same invention outside India.

NAME	SIGNATURE	DATE
Dr. Sayeeda Sultana		06/01/2024
Mr. C. Sakthivel		06/01/2024
Dr. M. Priya		06/01/2024
Dr. Gokul Raghavendra Srinivasan		06/01/2024

To
The Controller of patents, The Patent office at Chennai.

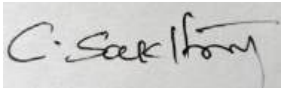
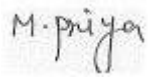
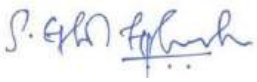
FORM 5
THE PATENTS ACT, 1970 (39 of 1970)
&
THE PATENTS RULES, 2003
DECLARATION AS TO INVENTORSHIP
(See section 8, rule 12)

Name of Applicant & Inventors

Name	Address	Nationality
Dr. Sayeeda Sultana	Professor and Head Department of Chemistry St. Peter's Institute of Higher Education and Research,Avadi, Chennai 600 054 Tamil Nadu, India	Indian
Mr. C. Sakthivel	Assistant Professor Department of Chemistry St. Peter's Institute of Higher Education and Research,Avadi, Chennai 600 054 Tamil Nadu, India	Indian
Dr. M. Priya	Assistant Professor School of Basic Science, Department of Chemistry Vels Institute of Science, Technology and Advanced Studies, Pallavaram, Chennai-600 117,India	Indian
Dr. Gokul Raghavendra Srinivasan	Research Scientist and Technical Analyst Department of Research and Development Steamax Envirocare Private Limited, Vikaspuri Delhi-110018, India	Indian

Hereby declare that the true and first inventor of the invention disclosed in the complete specification filed in pursuance of my application numbered _____ dated _____ TITLE OF THE INVENTION: Sesbania Grandiflora: A Treasure Trove of Therapeutic Compounds - Alkaloids, Flavonoids, and Antioxidant Activity Revealed

3.Declaration to be given when the application in India is filed by the Applicant in the convention country: -
I the applicant in the convention country hereby declare that our right to apply for a patent in India is by way or assignment from the true and first inventor.

NAME	SIGNATURE	DATE
Dr. Sayeeda Sultana		06/01/2024
Mr. C. Sakthivel		06/01/2024
Dr. M. Priya		06/01/2024
Dr. Gokul Raghavendra Srinivasan		06/01/2024

To
The Controller of patents, The Patent office at Mumbai, Chennai, New Delhi, Kolkata

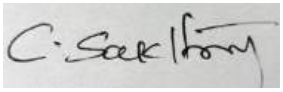
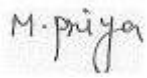
FORM 9
THE PATENTS ACT, 1970
(39 of 1970)
&
THE PATENTS RULES, 2003
REQUEST FOR PUBLICATION
(See section 11A(2); rule 24A)

We (state name, address and nationality of Applicant & Inventors)

TITLE OF THE INVENTION:
Sesbania Grandiflora: A Treasure Trove of Therapeutic Compounds - Alkaloids, Flavonoids, and Antioxidant Activity Revealed

Name	Address	Nationality
Dr. Sayeeda Sultana	Professor and Head Department of Chemistry St. Peter's Institute of Higher Education and Research,Avadi, Chennai 600 054 Tamil Nadu, India	Indian
Mr. C. Sakthivel	Assistant Professor Department of Chemistry St. Peter's Institute of Higher Education and Research,Avadi, Chennai 600 054 Tamil Nadu, India	Indian
Dr. M. Priya	Assistant Professor School of Basic Science, Department of Chemistry Vels Institute of Science, Technology and Advanced Studies, Pallavaram, Chennai-600 117,India	Indian
Dr. Gokul Raghavendra Srinivasan	Research Scientist and Technical Analyst Department of Research and Development Steamax Envirocare Private Limited, Vikaspuri Delhi-110018, India	Indian

Hereby request for early Publication of our application for Patent No. _____ dated _____ under section 11A(2) of the act.

NAME	SIGNATURE	DATE
Dr. Sayeeda Sultana		06/01/2024
Mr. C. Sakthivel		06/01/2024
Dr. M. Priya		06/01/2024
Dr. Gokul Raghavendra Srinivasan		06/01/2024

To
The Controller of patents, The Patent office at Mumbai, Chennai, New Delhi, Kolkata

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/01/2024

(21) Application No.202441002052 A
(43) Publication Date : 16/02/2024

(54) Title of the invention : DETECTION OF FAKE NEWS USING MACHINE LEARNING

(51) International classification :G06N0020000000, H04L0051020000, G06N0005020000, G08G0001017000, G01C0021340000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)Mr. H. M. Moyeenudin
Address of Applicant :Assistant Professor, School of Hotel and Catering Management, Vels Institute of Science Technology and Advanced Studies, Pallavaram, Chennai – 600 117, Tamilnadu, India. ---------- ----------
2)Ms. Gomathy M
3)Dr. Kanimozhiraman
4)Dr. S. Sajithabanu
5)Ms. Jasphin Jeni Sharmila P
6)Dr. Panem Charanarur
7)Mr. M.Sabari Ramachandran
8)Dr. M. Mohamed Rafi
9)Mr. G. Balamurugan
10)Dr. A. Manimaran
11)Dr. Jose Anand
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)Mr. H. M. Moyeenudin
Address of Applicant :Assistant Professor, School of Hotel and Catering Management, Vels Institute of Science Technology and Advanced Studies, Pallavaram, Chennai – 600 117, Tamilnadu, India. ---------- ----------
2)Ms. Gomathy M
Address of Applicant :Assistant Professor, Department of Computer Application, Banarsidas Chandiwala Institute of Information Technology, Chandiwala Estate, Maa Anandmai Marg, Kalkaji, New Delhi – 110019, India. ---------- ----------
3)Dr. Kanimozhiraman
Address of Applicant :Associate Professor, Department of Mathematics, KCG College of Technology, Karapakkam, Chennai – 600 097, Tamilnadu, India. ---------- ----------
4)Dr. S. Sajithabanu
Address of Applicant :Associate Professor, Department of IT, Mohamed Sathak Engineering College, Kilakarai, Ramanathapuram, Tamil Nadu – 623806, India. ---------- ----------
5)Ms. Jasphin Jeni Sharmila P
Address of Applicant :Assistant Professor, Department of CSE, Chennai Institute of Technology, Kunrathur, Kancheepuram - 600069, TamilNadu, India. ---------- ----------
6)Dr. Panem Charanarur
Address of Applicant :Assistant Professor, Department of Cyber Security and Digital Forensics, National Forensic Sciences University, Tripura Campus, Agartala, Tripura – 799006, India. ---------- ----------
7)Mr. M.Sabari Ramachandran
Address of Applicant :Assistant Professor, Department of MCA, Mohamed Sathak Engineering College, Kilakarai, Ramanathapuram, Tamilnadu – 623806, India. ---------- ----------
8)Dr. M. Mohamed Rafi
Address of Applicant :Professor & Head, Department of MCA, Mohamed Sathak Engineering College, Kilakarai, Ramanathapuram, Tamil Nadu – 623806, India. ---------- ----------
9)Mr. G. Balamurugan
Address of Applicant :Assistant Professor, Department of MCA, Mohamed Sathak Engineering College, Kilakarai, Ramanathapuram, Tamil Nadu – 623517, India. ---------- ----------
10)Dr. A. Manimaran
Address of Applicant :Professor, Department of CSE, Saveetha School of Engineering, SIMATS, Chennai, Kanchipuram District - 600124, Tamil Nadu, India. ---------- ----------
11)Dr. Jose Anand
Address of Applicant :Professor, Department of ECE, KCG College of Technology, Karapakkam, Chennai – 600 097, Tamil Nadu, India. ---------- ----------

(57) Abstract :
The work developed in this project was born from the need to somehow stop the growing spread of fake news shared by citizens in general on digital media. This is why it was proposed to develop a viable product that helps in the automatic identification of fake news with machine learning techniques. To implement this solution, it was decided to take into account alternative attributes to directly process the text of the news that could determine its veracity, such as the percentage of capital letters in the title or the number of question marks. As a result of what was described, a chatbot was obtained implemented in Amazon Lex integrated with Facebook Messenger that receives the title and text of the news, then these parameters are processed by the machine learning model and finally the user is responded to if the news is true or false and with what probability. Accompanied Drawing [FIG. 1] [FIG. 2][FIG. 3] [FIG. 4] [FIG. 5] [FIG. 6] [FIG. 7][FIG. 8] [FIG. 9] [FIG. 10]

No. of Pages : 24 No. of Claims : 4

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Government of India

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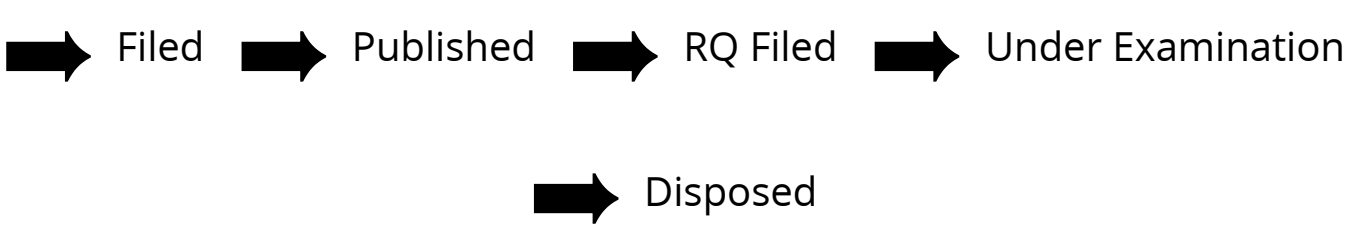
Application Details	
APPLICATION NUMBER	202441002595
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	12/01/2024
APPLICANT NAME	1 . Dr. A. Akila 2 . Dr. R. Parameswari 3 . Dr. Yogesh Kumar Sharma 4 . Babloo Kumar
TITLE OF INVENTION	SMART HIGH-PRESSURE WATER JETTING SYSTEM FOR AI-OPTIMIZED DRAINAGE CLEANING
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	vignesh.tamilarasun@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	09/02/2024

Application Status	
APPLICATION STATUS	Awaiting Request for Examination

View Documents



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THE PATENT OFFICE

निर्गमन सं. 08/2024	शुक्रवार	दिनांक: 23/02/2024
ISSUE NO. 08/2024	FRIDAY	DATE: 23/02/2024

पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :12/01/2024

(21) Application No.202441002650 A

(43) Publication Date : 23/02/2024

(54) Title of the invention : A METHOD FOR BIOLOGICAL EVALUATION OF IBUPROFEN DERIVATIVE AGAINST COLON AND BREAST CANCER CELL-LINES

(51) International classification :A61P0035000000, G01N0033500000, A61K0031192000, G01N0033574000, A61P0003060000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**

1)Dr.S.Radha Mahendran

Address of Applicant :Professor & Head, Bioinformatics Department, Vels Institute of Science Technology and Advanced Studies, Pallavaram, Chennai, Kanchipuram, Tamil Nadu, India ---------- ----------

2)Surya Gunasekaran

3)M. Veeraragavan

4)Dr. Inamul Hasan Madar

5)Mr. Vishal Nanasaheb Kushare

6)Dr.M.V.Sureshkumar

7)Ms. Namita Vinod Kamble

8)Dr. Amit Chauhan

9)Surya Pratap Singh

10)Dr. T. ArunKumar

11)Dr. Kogila Palanimuthu

12)Dr. Rajeev Ranjan

Name of Applicant : NA

Address of Applicant : NA

(72)**Name of Inventor :**

1)Dr.S.Radha Mahendran

Address of Applicant :Professor & Head, Bioinformatics Department, Vels Institute of Science Technology and Advanced Studies, Pallavaram, Chennai, Kanchipuram, Tamil Nadu, India ---------- ----------

2)Surya Gunasekaran

Address of Applicant :Research Scholar, Chennai, Kanchipuram, Tamil Nadu, India ---------- ----------

3)M. Veeraragavan

Address of Applicant :Assist Professor, Department of Biochemistry, Mother Teresa College of Agriculture, Illuppur, Pudukkottai, Tamilnadu, India, Pincode 622102 ---------- ----------

4)Dr. Inamul Hasan Madar

Address of Applicant :Associate Professor- Multiomics and Precision Medicine, Centre for Global Health Research, Saveetha Medical College and Hospital, Saveetha Institute of Medical and Technical Sciences (SIMATS), Saveetha University, Thandalam, Chennai, Tamil Nadu, India 602105 ---------- ----------

5)Mr. Vishal Nanasaheb Kushare

Address of Applicant :Lecturer/Maratha Vidya Prasarak Samaj's, Shivaji Nagar Gangapur Road, Nashik (College of Pharmacy, Nashik), 422002, Maharashtra, India ---------- ----------

6)Dr.M.V.Sureshkumar

Address of Applicant :Professor, Department of Chemistry, Jansons Institute of Technology, Coimbatore 641659, Tamil Nadu, India ---------- ----------

7)Ms. Namita Vinod Kamble

Address of Applicant :Asst. Professor, Department of Pharmacology, D.Y.Patil University Pune, Ambi, Talegaon Dabhade, Pune, Maharashtra, India ---------- ----------

8)Dr. Amit Chauhan

Address of Applicant :Department of Life Sciences, School of Sciences, CHRIST (Deemed to be University), Bengaluru, Karnataka, India 560029 ---------- ----------

9)Surya Pratap Singh

Address of Applicant :Research Scientist-I, Multi-Disciplinary Research Unit (MRU), Uttar Pradesh University of Medical Sciences (UPUMS), Saifai, Etawah, 206130 (U.P.), India ---------- ----------

10)Dr. T. ArunKumar

Address of Applicant :Assistant Professor, Department of Chemistry, SNS College of Technology, Coimbatore, 641035, Tamil Nadu, India ---------- ----------

11)Dr. Kogila Palanimuthu

Address of Applicant :Associate Professor, Department of Pediatric and Child Health Nursing, Institute of Health Sciences, Dambi Dollo, Pin 260, Kellam Wollega, Oromia, Ethiopia ---------- ----------

12)Dr. Rajeev Ranjan

Address of Applicant :Assistant Professor, University Department of Chemistry, DSPM University, Ranchi 834008, Jharkhand, India ---------- ----------

(57) Abstract :

The invention presents a method for systematically evaluating the anti-cancer efficacy of an ibuprofen derivative against colon and breast cancer cell-lines. The method involves culturing cancer cell-lines, administering the ibuprofen derivative in varying concentrations, and conducting viability assays, apoptosis assays, and gene expression analysis. By quantitatively measuring cell survival, apoptosis induction, and assessing molecular pathways affected by the ibuprofen derivative, the method provides a comprehensive framework for identifying a potential anti-cancer agent. The invention further extends to the development of a pharmaceutical composition and its application in treating colon and breast cancer, offering a multifaceted approach to advance cancer therapeutics.

No. of Pages : 17 No. of Claims : 10

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Department for Promotion of Industry and Internal Trade
Ministry of Commerce & Industry,
Government of India

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Application Details	
APPLICATION NUMBER	202441007883
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	05/02/2024
APPLICANT NAME	1 . K Jyothi, Geethanjali College of Engineering and Technology 2 . Dr. V. Raghavendran, Vel's Institute of Science Technology, and Advanced Studies 3 . Kshatriya Vinaya Sree Bai, Lakireddy Bali Reddy College of Engineering 4 . Sudarshan Kumar Jain, Jaipur Engineering College and Research Centre 5 . Dr. G Naga Rama Devi, Sreyas Institute of Engineering and Technology
TITLE OF INVENTION	SYSTEM AND METHOD OF ULTRA-HIGH COMPRESSION OF MRI-IMAGES BASED ON DEEP LEARNING
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
E-MAIL (As Per Record)	jyothikiranch23@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--

PUBLICATION DATE (U/S 11A)	08/03/2024

Application Status	
APPLICATION STATUS	**Awaiting Request for Examination**

View Documents

➡ Filed ➡ Published ➡ RQ Filed ➡ Under Examination ➡ Disposed

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Department for Promotion of Industry and Internal Trade
Ministry of Commerce & Industry,
Government of India

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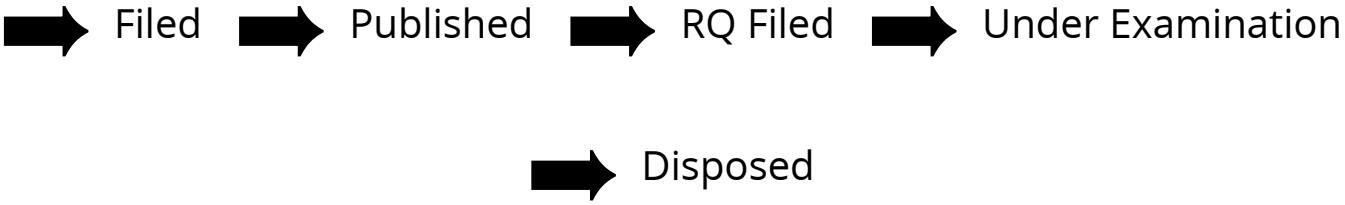
Application Details	
APPLICATION NUMBER	202441013751
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	26/02/2024
APPLICANT NAME	1 . Dr,Krishnachalitha.K.C, Alliance University 2 . Dr.Kannan M, Amrita Vishwa Vidyapeetham (Mysuru Campus) 3 . Dr.C.Priya, Dr.M.G.R. Educational and Research Institute 4 . Dr.N. M. Sangeetha, Dwaraka Doss Goverdhan Doss Vaishnav College 5 . Mrs.S.Arockiya Selvi, Vels Institute of Science,Technology and Advanced Studies Technology and Advanced Studies 6 . Dr.G.Mothilal Nehru, SRM Institute Of Science & Technology, Kattankolathur 7 . Dr.I.Sudha, Saveetha Institute of Medical and Technical Sciences 8 . Dr.R.Cristin, GMR Institute of Technology 9 . Dr Booba. B, Vels Institute of Science, Technology and Advanced Studies 10 . Dr.D.Kavitha, St. Peter's Institute of Higher Education and Research
TITLE OF INVENTION	METHOD AND APPARATUS FOR PREDICTING PATIENT HEALTH OUTCOMES USING MACHINE LEARNING AND IOT DATA
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
E-MAIL (As Per Record)	krishnachalitha.kc@alliance.edu.in
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	15/03/2024

Application Status	
APPLICATION STATUS	**Awaiting Request for Examination**

			View Documents



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Department for Promotion of Industry and Internal Trade
Ministry of Commerce & Industry,
Government of India

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Application Details	
APPLICATION NUMBER	202441014567
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	28/02/2024
APPLICANT NAME	1 . DR. MURUGESAN. D 2 . DR. A.KRISHNAN 3 . DR. C.CHITRA 4 . DR. P.VANITHA 5 . DR. G MYTHILI 6 . DR. SWATHI PRADEEBA P 7 . DR. KALAISELVI K 8 . DR. SHASHILA.S 9 . DR. K. MAJINI JES BELLA 10 . DR. P. VIJAYASHREE
TITLE OF INVENTION	ADVANCED INVENTORY MANAGEMENT USING AI-DRIVEN DEMAND FORECASTING IN E-COMMERCE OPERATIONS
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	mail2patentipr@gmail.com
ADDITIONAL-EMAIL (As Per Record)	

E-MAIL (UPDATED Online)	
PRIORITY DATE	
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Application Status	
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➡ Filed ➡ Published ➡ RQ Filed ➡ Under Examination ➡ Disposed

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :02/03/2024

(21) Application No.202441015640 A
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(54) Title of the invention : ANALYSIS OF ROLES AND RESPONSIBILITIES OF LANGUAGE TEACHERS

(51) International classification	:G09B0019060000, G09B0019040000, G06Q0050200000, G09B0007000000, G09B0019000000
(86) International Application No	:NA
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(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)**Name of Applicant :**
1)Dr. RAM CHANDRA KALLURI
Address of Applicant :CHAIRPERSON, DEPARTMENT OF ENGLISH, AMRITA VISHWA VIDYAPEETHAM AMARAVATI CAMPUS , ANDHRA PRADESH ,INDIA- 522503 Guntur ---------- ----------
2)Dr. V. JAYASHREE PRIYADHARSINI
3)Dr.ANUPAM SHARMA
4)Dr. MUHAMMED BASHEER VP
5)Dr. S. SAKTHIVEL
6)Dr. V.KANNAN
7)Dr. BENILA
8)Mr.J LOGESHWARAN
9)Dr.ABHIJT CHAKRABORTY
10)Dr.R.JEYANTHI
11)Dr. K.SHEEBA
12)MENDA SREEVANI
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)Dr. RAM CHANDRA KALLURI
Address of Applicant :CHAIRPERSON, DEPARTMENT OF ENGLISH, AMRITA VISHWA VIDYAPEETHAM AMARAVATI CAMPUS , ANDHRA PRADESH ,INDIA- 522503 Guntur ---------- ----------
2)Dr. V. JAYASHREE PRIYADHARSINI
Address of Applicant :ASSISTANT PROFESSOR OF BIOLOGICAL SCIENCES – EDUCATION, N.K.T NATIONAL COLLEGE OF EDUCATION FOR WOMEN(AUTONOMOUS), AFFILIATED TO TAMIL NADU TEACHERS EDUCATION UNIVERSITY, NO.41 DR. BESANT ROAD, TRIPLICANE, CHENNAI- 600 005 Chennai ---------- ----------
3)Dr.ANUPAM SHARMA
Address of Applicant :ASSOCIATE PROFESSOR , APPLIED SCIENCE , DELHI TECHNICAL CAMPUS, GREATER NOIDA, UTTER PRADESH, 201306, NDIA Greater Noida ---------- ----------
4)Dr. MUHAMMED BASHEER VP
Address of Applicant :ASSISTANT PROFESSOR, MATHEMATICS, UNIVERSITY OF TECHNOLOGY AND APPLIED SCIENCE –NIZWA, KERALA- 673571, INDIA Nizwa ---------- ----------
5)Dr. S. SAKTHIVEL
Address of Applicant :ASSISTANT PROFESSOR, ENGLISH, B.S. ABDUR RAHMAN CRESCENT INSTITUTE OF SCIENCE AND TECHNOLOGY, CHENNAI, TAMILNADU-600048, INDIA Chennai ---------- ----------
6)Dr. V.KANNAN
Address of Applicant :MANAGING DIRECTOR, CLDC RESEARCH AND DEVELOPMENT, NO.997, METTUPALAYAM ROAD, NEAR X-CUT SIGNAL, R.S.PURAM, COIMBATORE, TAMIL NADU -641002. INDIA (BHARAT) Coimbatore ---------- ----------
7)Dr. BENILA
Address of Applicant :ASSISTANT PROFESSOR, ENGLISH LITERATURE, ST. TERESA ARTS AND SCIENCE COLLEGE FOR WOMEN, MANGALAKUNTU , KANYAKUMARI , TAMILNADU – 629172, INDIA 629172 ---------- ----------
8)Mr.J LOGESHWARAN
Address of Applicant :RESEARCH SCHOLAR, DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, SRI ESHWAR COLLEGE OF ENGINEERING, COIMBATORE- TAMIL NADU Coimbatore ---------- ----------
9)Dr.ABHIJT CHAKRABORTY
Address of Applicant :VICE PRINCIPAL (PROFESSOR) AND HOD,ME DEPT., MECHANICAL ENGINEERING, GLOBAL INSTITUTE OF MANAGEMENT AND TECHNOLOGY, KRISHNAGAR, WEST BENGAL- 741102 Krishnagar ---------- ----------
10)Dr.R.JEYANTHI
Address of Applicant :ASSISTANT PROFESSOR, EDUCATION, VELS INSTITUTE OF SCIENCE, TECHNOLOGY AND ADVANCED STUDIES (VISTAS), CHENNAI, TAMILNADU- 600117. INDIA Chennai ---------- ----------
11)Dr. K.SHEEBA
Address of Applicant :ASSOCIATE PROFESSOR, SCHOOL OF EDUCATION, VELS INSTITUTE OF SCIENCE, TECHNOLOGY AND ADVANCED STUDEIS, PALLAVARAM, CHENNAI, TAMIL NADU- 600 117 Chennai ---------- ----------
12)MENDA SREEVANI
Address of Applicant :DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, INSTITUTE OF AERONAUTICAL ENGINEERING, DUNDIGAL- 500043, HYDERABAD, INDIA Hyderabad ---------- ----------

(57) Abstract :
ABSTRACT ANALYSIS OF ROLES AND RESPONSIBILITIES OF LANGUAGE TEACHERS Language teachers play a critical role in facilitating the learning and acquisition of a new language. Their responsibilities extend beyond teaching basic grammar and vocabulary, as they also have a significant impact on the cultural and social aspects of language learning. This analysis will highlight the roles and responsibilities of language teachers, outlining their key tasks and how they contribute to effective language learning. First and foremost, language teachers are responsible for creating a supportive and inclusive classroom environment that promotes a positive attitude towards language learning. This involves creating a safe space for students to ask questions, express themselves, and make mistakes without fear of judgment. They also foster a sense of community and encourage a collaborative learning approach, where students learn from each other and work together to improve their language skills. Another crucial responsibility of language teachers is to design and implement effective lesson plans that cater to the needs of their students. This involves understanding the individual learning styles and abilities of students and adapting teaching methods accordingly. They should also integrate a variety of language learning activities, such as role-playing, group discussions, and multimedia resources, to make the learning experience interactive and engaging for students. Language teachers also have a significant role in assessing students' progress and providing feedback on their language skills. This can include regular quizzes, tests, and projects, as well as informal feedback during class activities. They should also track and document students' progress and provide guidance when needed to help students improve their language skills. In addition to teaching linguistic skills, language teachers also have a responsibility to promote cultural awareness and understanding among students. This includes exposing students to different cultural practices, traditions, and perspectives through the use of authentic materials, such as literature, music, and films. They assist students in developing a global mindset and appreciation for diversity, which is essential for effective language learning. Language teachers also have administrative responsibilities, such as curriculum planning and professional development. They should keep up to date with the latest developments in language teaching methodology, research, and technology to continuously improve their teaching practices. They also collaborate with other language teachers to share ideas and resources and participate in workshops and conferences to enhance their skills. In conclusion, language teachers have a multifaceted role in the language learning process. They not only teach the technical aspects of language but also foster a positive learning environment, assess student progress, promote cultural awareness, and engage in continuous professional development. Their diverse responsibilities and dedication play a crucial role in equipping students with the knowledge and skills needed to become effective and culturally competent communicators in a globalized world.

No. of Pages : 15 No. of Claims : 8

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Department for Promotion of Industry and Internal Trade
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Government of India

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APPLICATION TYPE	ORDINARY APPLICATION
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APPLICANT NAME	1 . Renuka H.R 2 . Ms.J.Gajavalli 3 . Dr. S Jeyalaksshmi 4 . G.Ramya Shri 5 . Dr. Sandip Haldar 6 . Dr.F.Sangeetha Francelin Vinnarasi 7 . Siddanna S R 8 . Dr. Puneet Banga 9 . Abhishek Srivastava 10 . Kalpana R A
TITLE OF INVENTION	AI BASED APPROACH FOR DETECTING, QUANTIFYING, AND VISUALIZING THE EVOLUTION OF ANY RESEARCH FIELD USING DEEP LEARNING ALGORITHMS
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	senanipindia@gmail.com
ADDITIONAL-EMAIL (As Per Record)	

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(21) Application No.202441027216 A
(43) Publication Date : 12/04/2024

(54) Title of the invention : AN INNOVATIVE FRAMEWORK FOR INSTILLING INTERNATIONAL ENGLISH PROFICIENCY IN YOUNG LEARNERS THROUGH JOYFUL LEARNING AND CREATIVITY

(51) International classification	:G09B0019060000, G01N0033487000, C12N0015100000, A61B0006000000, H04W0004029000
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(71)**Name of Applicant :**
1)DR V JAISRE
Address of Applicant :Professor/English, Vels Institute of Science Technology and Advanced Studies, Chennai, TamilNadu. Chennai ---------- ----------
2)Dr. M. Nagalakshmi
3)Dr. A. A. Jayashree Prabhakar
4)Dr. V. N. Sudheer
5)Ravi Sankar Akkaraveetil
6)R. Abeetha
7)Dr. Sr. Shiny K. P
8)Alisha Hashmi
9)Dr. Jyoti Syal
10)Dr. Deepak Subhash Dixit
11)Mrs. Amutha
12)Dr. Makarand Upadhyaya
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)DR V JAISRE
Address of Applicant :Professor/English, Vels Institute of Science Technology and Advanced Studies, Chennai, TamilNadu. Chennai ---------- ----------
2)Dr. M. Nagalakshmi
Address of Applicant :Professor, Department of English, VISTAS, Chennai,600117. Chennai ---------- ----------
3)Dr. A. A. Jayashree Prabhakar
Address of Applicant :Associate Professor, Department of English. Vels Institute of Science , Technology and Advanced Studies(VISTAS), Pallavaram, Chennai-600117. Chennai ---------- ----------
4)Dr. V. N. Sudheer
Address of Applicant :Associate Professor, School of Liberal Studies, CMR university, Bangalore. Bangalore ---------- ----------
5)Ravi Sankar Akkaraveetil
Address of Applicant :Professor, Department of Psychology, CMR University, Bengaluru, 560043. Bengaluru ---------- ----------
6)R. Abeetha
Address of Applicant :Vels Institute of Science, Technology and Advanced Studies, chennai. Chennai ---------- ----------
7)Dr. Sr. Shiny K. P
Address of Applicant :Principal, Department of English, JMJ College for Women (Autonomous), Tenali, Pincode-522202. Tenali ---------- ----------
8)Alisha Hashmi
Address of Applicant :Sagar Institute of Science and Technology, Bhopal. Bhopal ---------- ----------
9)Dr. Jyoti Syal
Address of Applicant :Assistant Professor(English) /Department of Mathematics & Humanities, MMEC, Maharishi Markandeshwar (Deemed to be University), Mullana-Ambala, Haryana-133207. Ambala ---------- ----------
10)Dr. Deepak Subhash Dixit
Address of Applicant :Head, R B Mundada College of Arts, Commerce and Science, Pune. Pune ---------- ----------
11)Mrs. Amutha
Address of Applicant :Assistant Professor of English, Excel College for Commerce and Science, Komarapalayam, Namakkal. Komarapalayam ---------- ----------
12)Dr. Makarand Upadhyaya
Address of Applicant :Associate Professor, College of Business Administration, University of Bahrain, Sikhar , Bahrain 32028. ---------- ----------

(57) Abstract :
An Innovative Framework for Instilling International English Proficiency in Young Learners through Joyful Learning and Creativity is the proposed invention. The proposed invention focuses on understanding the English proficiency of young learners through creativity and activities. The invention focuses on analyzing the Instilling International English Proficiency in Young Learners through Joyful Learning and Creativity using algorithms of Innovative approach.

No. of Pages : 12 No. of Claims : 3

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Government of India

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Application Details	
APPLICATION NUMBER	202441030907
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APPLICANT NAME	1 . Dr. V. Divya 2 . C BalaKamatchi 3 . Dr. S. Arunarani 4 . Dr. A. Bharathi 5 . Dr. U. Hemamalini 6 . Mrs. M Girija 7 . Mr.M Santhoshkumar 8 . Mrs.J.Saranya 9 . Mr. R. Pratheesh 10 . Dr.S.Kamalakkannan
TITLE OF INVENTION	HYBRID CLOUD APPROACH FOR SECURE AUTHORIZED DEDUPLICATION OF MEDICAL RECORD WITH STRONG ENCRYPTION/DECRYPTION ALGORITHMS TO PREVENT FROM CYBER ATTACKS
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	senanipindia@gmail.com
ADDITIONAL-EMAIL (As Per Record)	

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APPLICATION STATUS	**Awaiting Request for Examination**

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(19) INDIA
(22) Date of filing of Application :25/04/2024

(21) Application No.202441032838 A
(43) Publication Date : 03/05/2024

(54) Title of the invention : EXPLORING MACHINE LEARNING APPROACHES FOR PREDICTING STRESS AND BURNOUT AMONG COLLEGE TEACHERS

(51) International classification :G06Q0050200000, G06K0009620000, G06N0020000000, C12N0015100000, G06N0003080000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)Dr. J.K.Kanimozhi
Address of Applicant :Associate Professor, PG and Research Dept of Computer Science and Applications, Vivekanandha College of Arts and Sciences for Women (Autonomous), Tiruchengode, Namakkal - 637205 Tiruchengode ---------- ----------
2)Dr. S. Anitha
3)Remya Gayathri S
4)Imroz Khan
5)Kc Mishra
6)Mr.P.Mithun
7)Dr. R. Murugesan
8)Dr. Kavita Singh
9)Dr.M.Vetrivel
10)Dr Deepak Subhash Dixit
11)Thulasimani T
12)Anthony Savio Herminio Da Piedade Fernandes
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)Dr. J.K.Kanimozhi
Address of Applicant :Associate Professor, PG and Research Dept of Computer Science and Applications, Vivekanandha College of Arts and Sciences for Women (Autonomous), Tiruchengode, Namakkal - 637205 Tiruchengode ---------- ----------
2)Dr. S. Anitha
Address of Applicant :Assistant Professor/PG&Research Department of Computer Science and Applications, Vivekanandha College of Arts and Sciences For Women (Autonomous), Elayampalayam, 637205 Tiruchengode ---------- ----------
3)Remya Gayathri S
Address of Applicant :Assistant Professor, Department Of Pharmacy Practice, Chemists College Of Pharmaceutical Sciences And Research, Ernakulam, 682308 Ernakulam ---------- ----------
4)Imroz Khan
Address of Applicant :Research Scholar/Business School,Vellore Institute Of Technology, Bhopal,466114 Bhopal ---------- ----------
5)Kc Mishra
Address of Applicant :Department of English, Rajiv Gandhi University, Doimukh-791112, Arunachal Pradesh Doimukh ---------- ----------
6)Mr.P.Mithun
Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, St.Joseph's Institute of Technology, OMR, Chennai, Tamilnadu, India-600119 Chennai ---------- ----------
7)Dr. R. Murugesan
Address of Applicant :Assistant Professor, Department of Physical Education, Pondicherry University Community College, Lawspet, Puducherry.Pin-605008 Puducherry ---------- ----------
8)Dr. Kavita Singh
Address of Applicant :Associate Professor,Department of Civil Engineering, Institute of Aeronautical Engineering, Dundigal, Hyderabad -500043 Hyderabad ---------- ----------
9)Dr.M.Vetrivel
Address of Applicant :Associate Professor, Department of Commerce, VELS University (VISTAS), Chennai -600117 Chennai ---------- ----------
10)Dr Deepak Subhash Dixit
Address of Applicant :Head, Department of English, R B Mundada College of Arts, Commerce and Science, Pune Pune ---------- ----------
11)Thulasimani T
Address of Applicant :Associate Professor, Department of Mathematics, Bannari Amman Institute of Technology, Sathy - 638401 Sathy ---------- ----------
12)Anthony Savio Herminio Da Piedade Fernandes
Address of Applicant :Founder Owner, Trading Equations, 54/C, Xell, Bastora, Bardez, Goa - 403507 Bastora ---------- ----------

(57) Abstract :
Exploring machine learning approaches for predicting stress and burnout among college teachers is the proposed invention. The proposed invention focuses on understanding the impact of stress and burnout on the performance of college teachers. The invention focuses on analyzing the parameters of stress and burn out among college teachers using algorithms of machine learning.

No. of Pages : 12 No. of Claims : 4

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Ministry of Commerce & Industry,
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(http://ipindia.nic.in/index.htm)

Application Details	
APPLICATION NUMBER	202441036944
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	10/05/2024
APPLICANT NAME	1 . Dr. T. Vino 2 . Dr. Sudhakar K 3 . Mrs. Niveditha S 4 . Mrs. Noor Sumaiya 5 . Mr. Thamaraiselvan B 6 . M. Aslam Abdullah 7 . Dr. R. Ramya 8 . Dr. S.Thenmozhi 9 . Abhijeet Das 10 . Aarthi D 11 . Dr. Jigneshkumar Jayantilal Patel 12 . Dr. Sandipkumar Ramanlal Panchal 13 . Ms. Suganya A 14 . Dr. K. Kasturi
TITLE OF INVENTION	SOLID WASTE RECYCLING MONITORING DEVICE USING IOT
FIELD OF INVENTION	COMPUTER SCIENCE

E-MAIL (As Per Record)	subramaniannagu@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
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(19) INDIA

(22) Date of filing of Application :18/05/2024

(21) Application No.202441039135 A

(43) Publication Date : 31/05/2024

(54) Title of the invention : THE INTERACTION OF TECHNOLOGY AND COMMERCE: EXPLORING THE LATEST APPLICATIONS

(51) International classification	:G06Q0030020000, G06Q0030060000, G06Q0030000000, G06Q0020380000, B25J0011000000
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(71)**Name of Applicant :**

1)Dr. C.CHITRA

Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF COMMERCE, VELS INSTITUTE OF SCIENCE, TECHNOLOGY AND ADVANCED STUDIES, CHENNAI 600117, TAMIL NADU Chennai ---------- ----------

2)Dr. H.KAMILAH BANU

3)Dr. G.S.DHANASHREE

4)Dr. P.VIJAYASHREE

5)Dr. SHASHILA.S

6)Dr. K.KALAISELVI

7)Dr. SWATHI PRADEEBA P

8)Dr. P VANITHA

9)Dr. MURUGESAN D

10)Dr. A.KRISHNAN

Name of Applicant : NA

Address of Applicant : NA

(72)**Name of Inventor :**

1)Dr. C.CHITRA

Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF COMMERCE, VELS INSTITUTE OF SCIENCE, TECHNOLOGY AND ADVANCED STUDIES, CHENNAI 600117, TAMIL NADU Chennai ---------- ----------

2)Dr. H.KAMILAH BANU

Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMMERCE, VELS INSTITUTE OF SCIENCE, TECHNOLOGY AND ADVANCED STUDIES, CHENNAI 600117, TAMIL NADU Chennai ---------- ----------

3)Dr. G.S.DHANASHREE

Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMMERCE, VELS INSTITUTE OF SCIENCE, TECHNOLOGY AND ADVANCED STUDIES, CHENNAI 600117, TAMIL NADU Chennai ---------- ----------

4)Dr. P.VIJAYASHREE

Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMMERCE, VELS INSTITUTE OF SCIENCE, TECHNOLOGY AND ADVANCED STUDIES, CHENNAI 600117, TAMIL NADU Chennai ---------- ----------

5)Dr. SHASHILA.S

Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMMERCE, VELS INSTITUTE OF SCIENCE, TECHNOLOGY AND ADVANCED STUDIES, CHENNAI 600117, TAMIL NADU Chennai ---------- ----------

6)Dr. K.KALAISELVI

Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMMERCE, VELS INSTITUTE OF SCIENCE, TECHNOLOGY AND ADVANCED STUDIES, CHENNAI 600117, TAMIL NADU Chennai ---------- ----------

7)Dr. SWATHI PRADEEBA P

Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMMERCE, VELS INSTITUTE OF SCIENCE, TECHNOLOGY AND ADVANCED STUDIES, CHENNAI 600117, TAMIL NADU Chennai ---------- ----------

8)Dr. P VANITHA

Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMMERCE, VELS INSTITUTE OF SCIENCE, TECHNOLOGY AND ADVANCED STUDIES, CHENNAI 600117, TAMIL NADU Chennai ---------- ----------

9)Dr. MURUGESAN D

Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF COMMERCE, VELS INSTITUTE OF SCIENCE, TECHNOLOGY AND ADVANCED STUDIES, CHENNAI 600117, TAMIL NADU Chennai ---------- ----------

10)Dr. A.KRISHNAN

Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF COMMERCE, VELS INSTITUTE OF SCIENCE, TECHNOLOGY AND ADVANCED STUDIES, CHENNAI 600117, TAMIL NADU Chennai ---------- ----------

(57) Abstract :

ABSTRACT The Interaction of Technology and Commerce: Exploring the latest Applications As technology continues to rapidly advance, it has increasingly become intertwined with the world of commerce. The interaction between technology and commerce has led to the emergence of new and innovative applications that are shaping the way businesses operate and customers interact with products and services. From e-commerce platforms to artificial intelligence, these applications are revolutionizing the way we conduct transactions, manage data, and communicate. They provide businesses with new ways to reach customers, analyze consumer behavior, and improve efficiency. At the same time, they offer consumers a more seamless and personalized shopping experience. As technology and commerce continue to evolve and intersect, it is clear that these latest applications will play an integral role in shaping the future of the global market.

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(22) Date of filing of Application :30/05/2024
(21) Application No.202441042212 A
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(54) Title of the invention : SYSTEM AND METHOD FOR INTELLIGENT RESOURCE MANAGEMENT USING DEEP LEARNING IN CLOUD COMPUTING ENVIRONMENTS

(51) International classification :G06F0009500000, G06N0003040000, G06F0012020000, G06N0003080000, G06Q0010040000
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(87) International Publication No : NA
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Filing Date :NA

(71)**Name of Applicant :**
1)Prof. Dr. Valliappan Raju
Address of Applicant :D-17-01, Saffron, Jalan Sentul Indah, Sentul, 51100, Kuala Lumpur, Malaysia ---------- ----------
2)Dr.(Mrs.) Kalpana Teware
3)Mr. A. V. Allin Geo
4)Dr. K. Vijayakumar
5)Dr. Riman Mandal
6)Mr. S.Muthukumar
7)Dr A Vijayalakshmi
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)Prof. Dr. Valliappan Raju
Address of Applicant :D-17-01, Saffron, Jalan Sentul Indah, Sentul, 51100, Kuala Lumpur, Malaysia ---------- ----------
2)Dr.(Mrs.) Kalpana Teware
Address of Applicant :Principal ,M K Ponda College of Business and Management, Bhopal ---------- ----------
3)Mr. A. V. Allin Geo
Address of Applicant :St.Joseph's Institute of Technology, Old Mahabalipuram Rd, Kamaraj Nagar, Semmancheri, Chennai, Tamil Nadu 600119 ---------- ----------
4)Dr. K. Vijayakumar
Address of Applicant :Department of Information Technology, St. Joseph's Institute of Technology, OMR, Chennai -119. ---------- ----------
5)Dr. Riman Mandal
Address of Applicant :School of Engineering and Technology, K. R. Mangalam University, Sohna Road, Gurugram, Sohna Rural, Sohna, Haryana 122103 ---------- ----------
6)Mr. S.Muthukumar
Address of Applicant :Assistant Professor/CSE St.Joseph's institute of technology Old Mahabalipuram Rd, Kamaraj Nagar, Semmancheri, Chennai, Tamil Nadu 600119 ---------- ----------
7)Dr A Vijayalakshmi
Address of Applicant :PROFESSOR Department of ECE School of Engineering VELS INSTITUTE OF SCIENCE TECHNOLOGY AND ADVANCED STUDIES (VISTAS) Pallavaram Chennai 600117 ---------- ----------

(57) Abstract :
Traditional methods often struggle to efficiently allocate computational resources, leading to either underutilization or overprovisioning. This invention introduces a novel solution by integrating deep learning techniques, which excel in learning patterns from vast datasets, to predict future workload demands and optimize resource allocation accordingly. By analyzing historical data and system performance metrics, deep learning models enable accurate predictions of future resource requirements, facilitating real-time allocation and optimization decisions. This dynamic approach ensures that cloud applications receive the necessary resources to meet performance targets while minimizing costs and resource wastage. The system's adaptability to changing workload conditions and its ability to automate decision1making processes represent significant advancements in cloud resource management. Empirical studies and simulations demonstrate the system's efficacy in improving resource utilization, reducing operational costs, and enhancing the overall reliability and performance of cloud services.

No. of Pages : 15 No. of Claims : 10

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Application Details	
APPLICATION NUMBER	202441046980
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	19/06/2024
APPLICANT NAME	1 . Dr. K. A. Emmanuel 2 . Mr. Pavuluri Chandrasekhar 3 . Dr. T.V. Nagalakshmi 4 . Dr. S. Vijaya Krishna 5 . Dr. Nellore Manoj Kumar 6 . Dr. R. Jalababu 7 . Dr. K. Koteswara Rao 8 . Dr. Sumanta Bhattacharya 9 . Dr. S. Gnanam
TITLE OF INVENTION	FLEXIBLE HYDROGEL-NANOGEL COMPOSITE FOR ADVANCED DRUG DELIVERY IN DIABETES CARE
FIELD OF INVENTION	CHEMICAL
E-MAIL (As Per Record)	nmkumar797@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
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PUBLICATION DATE (U/S 11A)	21/06/2024

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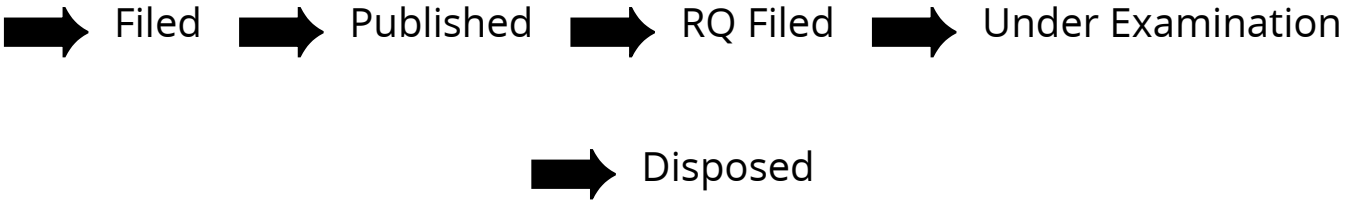

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शासकीय जर्नल

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(19) INDIA

(22) Date of filing of Application :27/07/2024

(21) Application No.202441057109 A

(43) Publication Date : 02/08/2024

(54) Title of the invention : PREDICTIVE ANALYTICS: TRANSFORMING CUSTOMER PROFILING, SEGMENTATION AND SALES PREDICTION IN DIRECT MARKETING USING MACHINE LEARNING

(51) International classification	:G06Q0030020000, G06K0009620000, G06N0005040000, G06F0011360000, G06Q0050060000
(86) International Application No Filing Date	:NA :NA
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(71)**Name of Applicant :**

1)Dr Somasekhar Donthu

Address of Applicant :Assistant Professor, School Of Business, Gitam University, Bangalore 561203, Bangalore Rural, Karnataka, India. ---------- ----------

2)Dr.Yogesh wasudeo Bhowte

3)Dr. Riyaz Ahmed Qureshi

4)Dr. Priya Sethuraman

5)Dr. Rambhai Jakhara Bharada

6)Sudeshna Pahari

7)Br. Bandaru Srinivasa Rao

8)Chaduvula Ramya

9)Dr.M.Vetrivel

10)N.Manicka Senthamarai

11)Anthony Savio Herminio da Piedade Fernandes

12)Dr.K.Mahendran

Name of Applicant : NA

Address of Applicant : NA

(72)**Name of Inventor :**

1)Dr Somasekhar Donthu

Address of Applicant :Assistant Professor, School Of Business, Gitam University, Bangalore 561203, Bangalore Rural, Karnataka, India. ---------- ----------

2)Dr.Yogesh wasudeo Bhowte

Address of Applicant :Professor, MBA, Singhad Institute of Management and Computer Applications Pune 411041, Maharashtra, India. ---------- ----------

3)Dr. Riyaz Ahmed Qureshi

Address of Applicant :Assistant Professor Marketing, Institute of Management & Research, MGM University, Aurangabad, Maharashtra, India. ---------- ----------

4)Dr. Priya Sethuraman

Address of Applicant :Professor/ Department of Management Studies, St. Joseph's Institute of Technology, Chennai, 600119, Chengalpattu, Tamil Nadu, India. ---------- ----------

5)Dr. Rambhai Jakhara Bharada

Address of Applicant :Assistant Professor at Darshan Institute of Management, Darshan University, Rajkot, 363650, Gujarat, India. ---------- ----------

6)Sudeshna Pahari

Address of Applicant :Assistant Professor, Amity Business School, Amity University Kolkata, 700135, West Bengal, India. ---------- ----------

7)Br. Bandaru Srinivasa Rao

Address of Applicant :Department of Management Studies, VFSTR Deemed to be University, Vadlamudi (Village), Guntur, Andhra Pradesh, India. ---------- ----------

8)Chaduvula Ramya

Address of Applicant :Assistant Professor, Department of Chemical Engineering GMR Institute of Technology, Rajam, 532127, Vizianagaram, Andhra Pradesh, India. ---------- ----------

9)Dr.M.Vetrivel

Address of Applicant :Associate Professor, Department of Commerce, VELS University VISTAS, Chennai - 600117, Tamil Nadu, India. ---------- ----------

10)N.Manicka Senthamarai

Address of Applicant :Assistant Professor, Computer science and engineering, Erode - 638012, Tamil Nadu, India. ---------- ----------

11)Anthony Savio Herminio da Piedade Fernandes

Address of Applicant :Founder Owner, Trading Equations, 54/C, Xell, Bastora, Bardez, Goa (403507), North Goa, India. ---------- ----------

12)Dr.K.Mahendran

Address of Applicant :Associate Professor /ECE, Jansons Institute of Technology, Coimbatore 641659, Tamil Nadu, India. ---------- ----------

(57) Abstract :

PREDICTIVE ANALYTICS: TRANSFORMING CUSTOMER PROFILING, SEGMENTATION AND SALES PREDICTION IN DIRECT MARKETING USING MACHINE LEARNING The method for the development of digital startups that want to satisfy their customers and expand sustainably must base their strategic decision-making on effective client profiling. Utilizing validation measures to determine the best clusters, this study explores the clustering of consumers based on regency, frequency, and monetary (RFM) analysis. Identification of discrete consumer segments is facilitated by the combination of the Elbow technique, Silhouette coefficient, and Gap Statistics approach with the K-means clustering algorithm. A boosting tree for prediction is employed, along with the RFM analysis approach for assessing client capital. This study gave an organized examination of how AI may accurately identify the target consumers despite their disparate actions, with a focus on the marketing environment. The uses of AI in customer targeting and the expected efficacy across the many phases of customer lifecycle were also covered. Through the historical analysis, behavioral insights of individual customers may be obtained in a more reliable and efficient method. FIG.1

No. of Pages : 16 No. of Claims : 1

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Intellectual Property India

Application Details

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APPLICANT NAME	**1 . Dr. S.Jothi Shri** **2 . Dr.A. Aalan Babu** **3 . Ms.S. Sethu** **4 . Dr.V.Samuthira Pandi** **5 . Dr.Manthandi Periannasamy** **6 . Dr. T. Kalyani** **7 . Dr.Dinesh S** **8 . Ms.R.Brindha** **9 . Dr.P.Renukadevi** **10 . Dr.Ajanthaa Lakkshmanan**
TITLE OF INVENTION	ENERGY-EFFICIENT IOT SENSOR NETWORK FOR ENVIRONMENTAL MONITORING
FIELD OF INVENTION	COMMUNICATION
E-MAIL (As Per Record)	senanipindia@gmail.com
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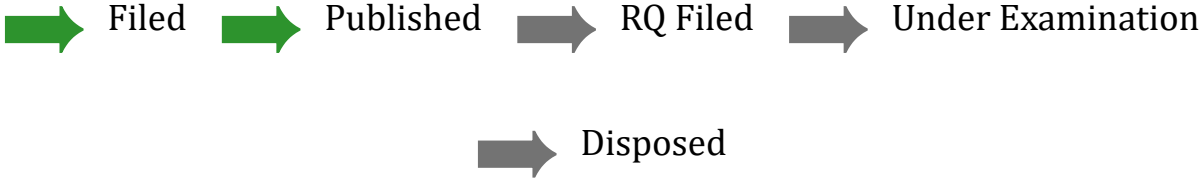

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(22) Date of filing of Application :10/09/2024

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(54) Title of the invention : CLOUD-ENHANCED SMART VACCINATION: REAL-TIME OPTIMIZATION AND PROACTIVE SURVEILLANCE FOR INTELLIGENT

(51) International classification :C09K0008800000, A61N0001080000, B01L0003000000, C07D0471100000, F01D0025240000

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(71)**Name of Applicant :**

1)P. SAROJA

Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, Sagi Rama Krishnam Raju Engineering College (Autonomous), SRKR Marg, China Amiram, Bhimavaram, Andhra Pradesh, India, Pin code-534204. ---------- ----------

2)Dr. N. MOHANKUMAR

3)BHARAT TIDKE

4)Dr. K SASIKALA

5)Dr. S. AGHALYA

6)MARIA SAMPOORNAM M

7)VETRISELVI D

8)PRAMOD K PANDEY

9)S. MURUGAN

10)C. SRINIVASAN

Name of Applicant : NA

Address of Applicant : NA

(72)**Name of Inventor :**

1)P. SAROJA

Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, Sagi Rama Krishnam Raju Engineering College (Autonomous), SRKR Marg, China Amiram, Bhimavaram, Andhra Pradesh, India, Pin code-534204. ---------- ----------

2)Dr. N. MOHANKUMAR

Address of Applicant :Professor, Symbiosis Institute of Technology, Nagpur Campus, Symbiosis International (Deemed University), Pune, Gat. No. 167,168,169, Village Mauje-Wathoda/Bhandewadi, Nagpur, Maharashtra, India, Pin code-440008.____ ---------- ----------

3)BHARAT TIDKE

Address of Applicant :Assistant Professor, Symbiosis Institute of Technology, Nagpur Campus, Symbiosis International (Deemed University), Pune, Gat. No. 167,168,169, Village Mauje-Wathoda / Bhandewadi, Nagpur, Maharashtra, India, Pin Code-440008. ---------- ----------

4)Dr. K SASIKALA

Address of Applicant :Associate Professor, Department of Electrical and Electronics Engineering, Vels Institute of Science Technology & Advanced Studies (VISTAS) Velan Nagar, P.V. Vaithiyalingam Road, Pal lavaram, Chennai, Tamil Nadu, India, Pin Code-600117. ---------- ----------

5)Dr. S. AGHALYA

Address of Applicant :Professor, Department of Electronics and Communication Engineering, St. Joseph's College of Engineering, Old Mahabalipuram Road, Chennai, Tamil Nadu, India, Pin code-600119. ---------- ----------

6)MARIA SAMPOORNAM M

Address of Applicant :Assistant Professor, Department of Information Technology, J J College of Engineering and Technology, Ammapettai, Poolangulathupatti, Tiruchirappalli, Tamil Nadu, India, Pin code-620009. ---------- ----------

7)VETRISELVI D

Address of Applicant :Assistant Professor, School of Computing Technologies, SRM Institute of Science and Technology, SRM Nagar, Kattankulathur, Chengalpattu District, Tamil Nadu, India, Pin code-603203. ---------- ----------

8)PRAMOD K PANDEY

Address of Applicant :Assistant Professor, Symbiosis Institute of Technology, Nagpur Campus, Symbiosis International (Deemed University), Pune, Gat. No. 167,168,169, Village Mauje-Wathoda / Bhandewadi, Nagpur, Maharashtra, India, Pin code-440008. ---------- ----------

9)S. MURUGAN

Address of Applicant :Adjunct Professor, Department of Biomedical Engineering, Saveetha School of Engineering, Saveetha Institute of Medical and Technical Sciences, Saveetha University, Saveetha Nagar, Thandalam, Chennai, Tamil Nadu, India, Pin code- 602105. ---------- ----------

10)C. SRINIVASAN

Address of Applicant :Adjunct Professor, Department of Computer Science and Engineering, Saveetha School of Engineering, Saveetha Institute of Medical and Technical Sciences, Saveetha University, Saveetha Nagar, Thandalam, Chennai, Tamil Nadu, India, Pin code-602105. ---------- ----------

(57) Abstract :

Abstract Vaccination system that uses cloud technology, IoT devices, and algorithms to control public health. For optimum vaccination distribution, this innovative ecosystem uses real-time monitoring, statistical modelling, and reactive programme administration. The system monitors storage and shipping operations using IoT sensors on AWS. Machine learning algorithms forecast vaccination demand and dynamically optimise the supply chain using demographics and historical data. Cloud infrastructure enables scalability, protection, as well as efficacy in processing huge information. The system monitors vaccine storage temperature, humidity, and shipping integrity in real time using IoT sensors. Automated notifications allow fast vaccination efficacy and safety corrections. Historical patterns, demography, and epidemiological data inform machine learning vaccination demand predictions. This proactive method optimises supply chain management, minimising bottlenecks and assuring vaccination delivery. Machine learning analytics helps identify high-risk demographics and regions for proactive campaign management. High-risk areas get targeted vaccinations to prevent disease transmission. Cloud- based collaboration technologies streamline stakeholder communication and data exchange. Encryptions protect sensitive health data. Automating common processes using cloudnative serverless computing improves computer agility and productivity. Integration with EHRs gives a comprehensive picture of patient data for better demand forecast. This cloud-based Smart Vaccination system revolutionises public health management by distributing vaccines securely, intelligently, and scalable. This innovative ecosystem uses cloud computing, IoT, and data mining to simplify current vaccination programmes and improve public health.

No. of Pages : 16 No. of Claims : 5

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Application Details	
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DATE OF FILING	13/09/2024
APPLICANT NAME	1 . manoharan sudharsan 2 . Dr. HARISHCHANDER ANANDARAM 3 . Dr J. Grace Hannah 4 . Dr.V.Sathya 5 . Anil Kewat 6 . Dr.M.S.Nidhya 7 . Dr N. Shyamala Devi
TITLE OF INVENTION	IOT BASED SMART HELMET (IBS MODEL) FOR MINERS PREAMBLE TO THE DESCRIPTION
FIELD OF INVENTION	ELECTRONICS
E-MAIL (As Per Record)	sudharsanms15@gmail.com
ADDITIONAL-EMAIL (As Per Record)	sudharsanms15@gmail.com
E-MAIL (UPDATED Online)	
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Department for Promotion of Industry and Internal Trade
Ministry of Commerce & Industry,
Government of India

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Application Details	
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DATE OF FILING	19/09/2024
APPLICANT NAME	1 . DR. RADHIKA R 2 . DR. SOWMYA S 3 . DR. SIDHEAKKYA.PG 4 . DR. P. SUNANTHA 5 . DR. M. PRATHAPAN 6 . DR. S. AISWARYA 7 . DR. N. TAIBANGNGANBI 8 . DR.A.MEENAKSHI 9 . DR.M.SENTHIL 10 . DR.S.VENNILAA SHREE
TITLE OF INVENTION	BLOCKCHAIN-BASED SECURE TRANSACTION SYSTEM FOR E-COMMERCE PLATFORMS
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	mail2patentipr@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	

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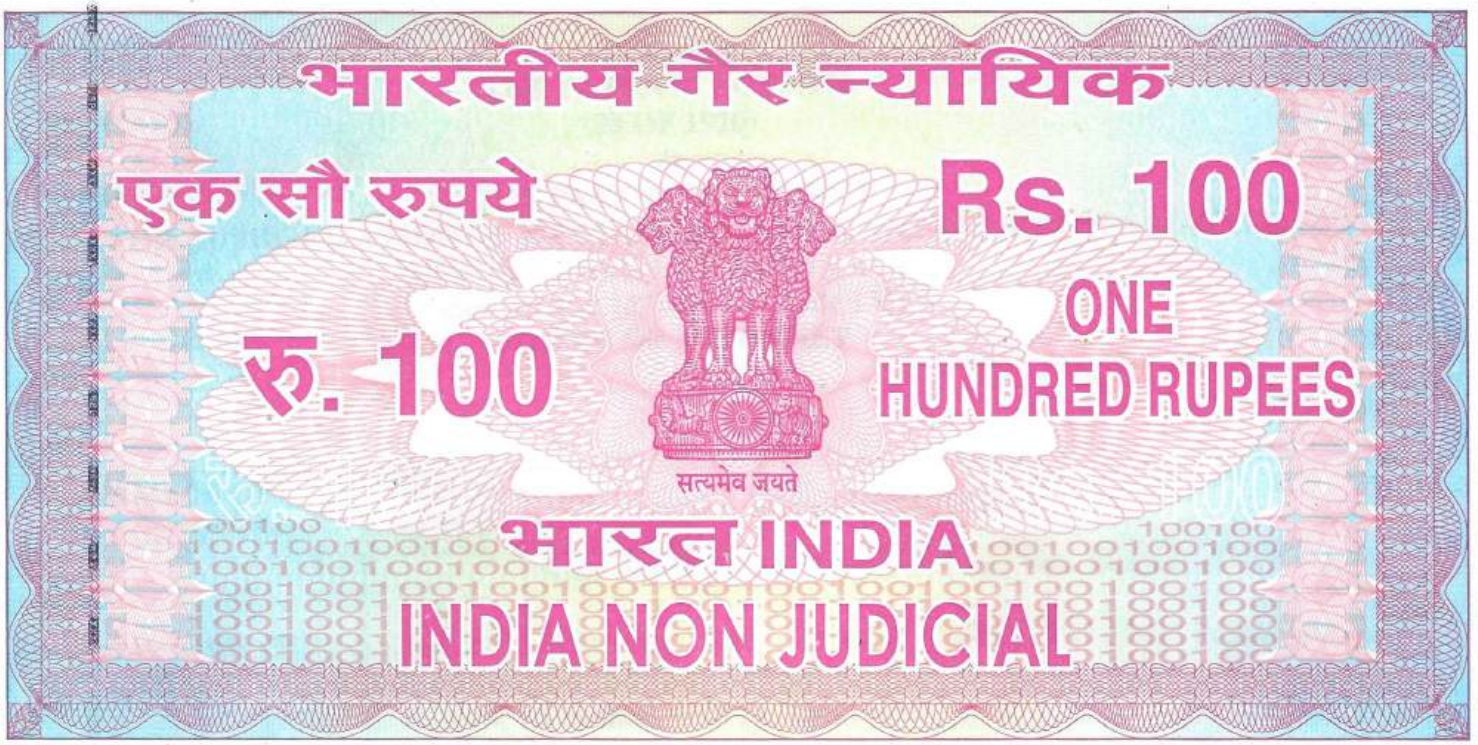

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I. Pream Charless
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V. RADHA
S.V.L. No: 3936/B1/2000
163-A, Salem Road
KRISHNAGIRI-635 001

STAMP DUTY FOR

APPLICATION NO: 202441064051

FORM 26
THE PATENTS ACT, 1970
(39 OF 1970)
&
THE PATENT RULES, 2003
FORM FOR AUTHORIZATION OF A PATENT AGENT/OR ANY PERSON IN A MATTER OF PROCEEDING UNDER THE ACT
(See Section 127 and 132; rule 135)
POWER OF ATTORNEY

I / we,

NAME(S) OF APPLICANT(S)	NATIONALITY	ADDRESS
Dr. Venkateswarlu Ch	Indian	Associate Professor, School of Law, Vels Institute of Science, Technology and Advanced Studies (VISTAS), Pallavaram, Chennai - 600117, Tamil Nadu, India.
Jithin S	Indian	Assistant Professor, School of Law, Vels Institute of Science, Technology and Advanced Studies (VISTAS), Pallavaram, Chennai - 600117, Tamil Nadu, India.
Dr. Jawaharrani K	Indian	Professor, Department of Management Studies, St Joseph's College of Engineering, OMR, Chennai - 600119, Tamil Nadu, India.
Esakkiammal S	Indian	Information Officer, Institute of Management, Nirma University, Sarkhej - Gandhinagar Highway, Gota, Tragad, Ahmedabad – 382481, Gujarat, India.
Dr. M. Thaiyalnayaki	Indian	Professor, Department of Commerce, Vels Institute of Science, Technology and Advanced Studies (VISTAS), Pallavaram, Chennai - 600117, Tamil Nadu, India.
Dr. Gokulakrishnan A	Indian	Assistant Professor, School of Management Studies, Department of Business Administration, Vels Institute of Science, Technology and Advanced Studies (VISTAS), Pallavaram, Chennai - 600117, Tamil Nadu, India.

Dr. Ashok Kumar Katta	Indian	Associate Professor, Department of Management Studies, Vels Institute of Science, Technology and Advanced Studies (VISTAS), Pallavaram, Chennai - 600117, Tamil Nadu, India.
Dr. Sasikumar P	Indian	Assistant Professor, School of Management Studies, Vels Institute of Science, Technology and Advanced Studies (VISTAS), Pallavaram, Chennai - 600117, Tamil Nadu, India.

hereby authorize, Prem Charles I, Registered Patent Agent INPA 3311, at#360E, First Floor, SenthurMuruganKovil Street, Opp. S.M. Mahal, Oldpet, Krishnagiri - 635001, Tamil Nadu, India, to act on our behalf in connection with Patent filing and further prosecution, filing of assignments and any document related thereto, with reference to our patent application/ reference no. 202441064051 dated 24-08-24 and all further patent applications filed by them in future, on our behalf and request that all notices, requisitions and communications relating thereto may be sent to such person at the above address unless otherwise specified. They are also authorized to substitute another attorney / agent to attend hearings (if any) in relation to the patent. We hereby revoke all previous authorizations, if any, in respect of same matter or proceeding. We hereby assent to the action already taken by the said persons in the above matter.

Dated - 28-08-24

Dr. Venkateswarlu Ch

Jithin S

Dr. Jawaharrani K

Esakkiammal S

Dr. M. Thaiyalnayaki

Dr. Gokulakrishnan A

Dr. Ashok Kumar Katta

Dr. Sasikumar P

PREM CHARLES I
REGISTERED INDIAN PATENT AGENT
REGN. ID.: INPA 3311

To,

The Controller of Patents

The Indian Patent Office

At Chennai, Kolkata, Delhi, Mumbai

FORM 2

THE PATENTS ACT, 1970

(39 of 1970)

&

The Patent Rules, 2003

COMPLETE SPECIFICATION

(See sections 100 & rule 103)

1. TITLE OF THE INVENTION

INNOVATIVE e-GOVERNANCE ENHANCING CITIZEN PARTICIPATION THROUGH ADVANCED AI TECHNOLOGIES

2. APPLICANT(S)

NAME(S)	NATIONALITY	ADDRESS
Dr. Venkateswarlu Ch	Indian	Associate Professor, School of Law, Vels Institute of Science, Technology and Advanced Studies (VISTAS), Pallavaram, Chennai - 600117, Tamil Nadu, India.
Jithin S	Indian	Assistant Professor, School of Law, Vels Institute of Science, Technology and Advanced Studies (VISTAS), Pallavaram, Chennai - 600117, Tamil Nadu, India.
Dr. Jawaharrani K	Indian	Professor, Department of Management Studies, St Joseph's College of Engineering, OMR, Chennai - 600119, Tamil Nadu, India.
Esakkiammal S	Indian	Information Officer, Institute of Management, Nirma University, Sarkhej - Gandhinagar Highway, Gota, Tragad, Ahmedabad – 382481, Gujarat, India.
Dr. M. Thaiyalnayaki	Indian	Professor, Department of Commerce, Vels Institute of Science, Technology and Advanced Studies (VISTAS), Pallavaram, Chennai - 600117, Tamil Nadu, India.

Dr. Gokulakrishnan A	Indian	Assistant Professor, School of Management Studies, Department of Business Administration, Vels Institute of Science, Technology and Advanced Studies (VISTAS), Pallavaram, Chennai - 600117, Tamil Nadu, India.
Dr. Ashok Kumar Katta	Indian	Associate Professor, Department of Management Studies, Vels Institute of Science, Technology and Advanced Studies (VISTAS), Pallavaram, Chennai - 600117, Tamil Nadu, India.
Dr. Sasikumar P	Indian	Assistant Professor, School of Management Studies, Vels Institute of Science, Technology and Advanced Studies (VISTAS), Pallavaram, Chennai - 600117, Tamil Nadu, India.

3. PREAMBLE TO THE DESCRIPTION

COMPLETE SPECIFICATION

The following description particularly describes the invention and the method in which it has to be performed.

INNOVATIVE e-GOVERNANCE ENHANCING CITIZEN PARTICIPATION THROUGH ADVANCED AI TECHNOLOGIES

FIELD OF THE INVENTION

[001]. The present disclosure is generally related to a Innovative E-Governance Enhancing Citizen Participation Through Advanced AI Technologies

BACKGROUND OF THE INVENTION

[002]. The primary objective is to develop an AI-driven e-governance model that enhances citizen participation through: Personalized Services: Using ML algorithms to tailor information and services based on individual citizen preferences.

[003]. Efficient Service Delivery: Implementing DL for automating routine tasks, reducing response times, and improving operational efficiency. Transparency and Accountability: Utilizing data analytics to provide insights into government processes, fostering trust and transparency.

[004]. Inclusive Access: Ensuring accessibility for all citizens, including marginalized groups, through user-friendly AI interfaces. Proactive Engagement: Predicting citizen needs and preferences to deliver proactive services and information. Data Security: Integrating robust ML-based security measures to protect citizen data and privacy.

SUMMARY OF THE INVENTION

[005]. The proposed AI-driven e-governance model integrates several components: Citizen Profiling and Segmentation: Utilizes ML algorithms to analyze citizen data and create dynamic profiles, enabling personalized service delivery. Automated Service

Desk: Implements NLP and DL techniques for AI-powered chatbots to handle citizen queries and streamline service requests.

[006]. Predictive Analytics: Uses ML models to analyze historical data and predict citizen needs, enabling proactive service delivery and resource allocation. Feedback Analysis: Incorporates sentiment analysis using DL models to gauge public opinion and improve government responsiveness. Security Framework: Integrates ML-based anomaly detection and encryption techniques to ensure data security and protect citizen privacy.

[007]. Dashboard and Monitoring: Provides government officials with real-time insights and analytics through interactive dashboards, enhancing decision-making processes.

3. Statement of Proposed Work

[008]. The proposed work will proceed through the following structured phases: Requirement Analysis and System Design: Conduct a comprehensive analysis of current e-governance systems and citizen needs. Collaborate with stakeholders to define system requirements and design an AI-driven architecture that integrates ML and DL technologies effectively.

[009]. Data Collection and Preprocessing: Gather diverse datasets including citizen interaction logs, service requests, and demographic information. Preprocess data to ensure quality and consistency, preparing it for training AI models.

[0010]. Development of AI Models: Develop and train ML models for citizen profiling, automated service management, predictive analytics, and sentiment analysis.

Implement DL techniques for natural language understanding and image recognition tasks.

[0011]. Integration and Testing: Integrate AI models into the e-governance platform, ensuring compatibility and functionality across all components. Conduct rigorous testing to validate system performance, reliability, and security measures.

[0012]. Deployment and Evaluation: Deploy the AI-driven e-governance system in a controlled environment or pilot phase. Monitor system performance, gather user feedback, and evaluate effectiveness in enhancing citizen participation and satisfaction.

[0013]. Scaling and Optimization: Scale the system based on pilot results, expanding deployment to broader user bases. Continuously optimize AI models and system functionalities based on ongoing feedback and emerging technologies.

DETAILED DESCRIPTION OF THE INVENTION

[0014]. In today's digital age, e-governance systems play a pivotal role in fostering citizen engagement and participation by leveraging advanced AI technologies. This proposed research aims to innovate e-governance practices through the integration of Machine Learning (ML) and Deep Learning (DL) concepts, ultimately enhancing the accessibility, responsiveness, and transparency of government services.

[0015]. Requirement Analysis and System Design: The initial phase of this research involves conducting a comprehensive analysis of existing e-governance systems and identifying critical challenges and opportunities for improvement. By engaging with stakeholders including government officials, IT experts, and citizens themselves, we aim to gather insights into the current limitations of traditional systems. This collaborative approach will guide the formulation of precise system requirements that

address the needs of diverse user groups and ensure alignment with strategic government objectives.

[0016]. Based on the gathered requirements, the next step involves designing an AI-driven e-governance architecture that leverages ML and DL technologies effectively. The architecture will encompass key components such as citizen profiling and segmentation, automated service management, predictive analytics, feedback analysis, security frameworks, and real-time monitoring dashboards. Each component will be meticulously designed to integrate seamlessly with existing government infrastructure while offering scalability and flexibility to accommodate future technological advancements.

[0017]. Data Collection and Preprocessing: Central to the success of AI-driven e-governance is the availability of high-quality data. During this phase, we will collect diverse datasets from various sources including citizen interaction logs, service requests, demographic information, and public feedback channels. These datasets will undergo rigorous preprocessing steps to ensure data quality, consistency, and compatibility across different AI models. Data preprocessing tasks will include cleaning, normalization, feature extraction, and anonymization to protect sensitive information in compliance with privacy regulations.

[0018]. Development of AI Models: With preprocessed data in hand, the development phase will focus on creating and training ML and DL models tailored to specific e-governance functionalities. ML algorithms will be employed for citizen profiling and segmentation, enabling the system to dynamically categorize citizens based on their interactions, preferences, and demographic attributes. This personalized approach will

facilitate targeted service delivery and information dissemination, enhancing user satisfaction and engagement.

[0019]. DL techniques will be utilized for more complex tasks such as natural language processing (NLP) for automated service desk functionalities. AI-powered chatbots equipped with NLP capabilities will be developed to understand and respond to citizen queries in real-time, reducing response times and improving service efficiency. Additionally, DL models will be trained for image recognition tasks within administrative processes, automating document verification and validation procedures.

[0020]. Predictive analytics will form another critical component of the AI-driven e-governance system, utilizing ML models to analyze historical data patterns and predict future citizen needs. By anticipating service demands and resource requirements, the system will enable proactive service delivery and optimize government resource allocation. This proactive approach not only enhances operational efficiency but also fosters a more responsive and citizen-centric governance environment.

[0021]. Integration and Testing: Upon successful development, the AI models will be integrated into the e-governance platform, ensuring seamless interoperability and functionality across all system components. Integration testing will be conducted rigorously to validate the performance, reliability, and security of the integrated system. This phase will involve simulated testing scenarios to identify and rectify any potential issues or bottlenecks before proceeding to deployment in a real-world setting.

[0022]. Deployment and Evaluation: The deployment phase will commence with a pilot implementation of the AI-driven e-governance system in a controlled environment or selected geographic area. During this phase, the system will undergo extensive monitoring and evaluation to assess its performance, user acceptance, and impact on

citizen participation. Government officials and stakeholders will actively gather user feedback to identify areas for improvement and refine system functionalities based on real-world usage scenarios.

[0023]. Scaling and Optimization: Building upon the insights gained from the pilot phase, the final stage of this research will focus on scaling the AI-driven e-governance system for broader deployment across wider user bases and geographical regions. Continuous optimization of AI models and system functionalities will be prioritized based on ongoing feedback, emerging technological trends, and evolving user needs. This iterative process of scaling and optimization ensures that the e-governance system remains adaptive, resilient, and capable of delivering enhanced citizen engagement and satisfaction over the long term.

[0024]. In conclusion, this research represents a pioneering effort to transform traditional e-governance practices through the innovative integration of advanced AI technologies. By enhancing accessibility, responsiveness, and transparency in government services, the proposed AI-driven model promises to foster a more inclusive, participatory, and citizen-centric governance framework. Through collaborative stakeholder engagement, rigorous data-driven analysis, and iterative development cycles, we aim to establish a scalable and sustainable e-governance paradigm that meets the evolving needs of modern societies.

#####DIGITALLY SIGNED#####
PREM CHARLES I
REGISTERED PATENT AGENT INPA-3311
On Behalf of the Applicants

Claims:

We Claims:

1. The modular design of the AI model will support scalability, allowing for seamless integration into existing e-governance infrastructures and adaptation to future technological advancements.

2. AI-powered chatbots and intuitive interfaces will enhance accessibility, enabling citizens to interact seamlessly with government services and information.

3. Advanced AI-based security protocols will safeguard citizen data against breaches and unauthorized access, ensuring privacy and confidentiality.

4.The AI-driven system ensures accessibility for all citizens, regardless of technological proficiency, promoting equitable participation in e-governance.

5. AI-driven sentiment analysis will allow for continuous monitoring of citizen feedback, enabling rapid adjustments and improvements in service quality.

6. Predictive analytics will enable proactive service delivery by anticipating citizen needs, ensuring timely responses and enhancing overall user satisfaction.

7. The AI model will ensure accessibility for diverse groups of citizens, including those with varying technological skills, thereby promoting equitable participation in e-governance.

8. AI-powered data analytics will provide transparent insights into government operations, promoting accountability and enhancing public trust in governance.

9. The integration of AI technologies will facilitate more personalized interactions and services, fostering active citizen engagement and participation in governance processes.

10. Automation through AI algorithms will streamline administrative tasks, significantly reducing response times and operational costs while improving service efficiency.

#####DIGITALLY SIGNED#####
PREM CHARLES I
REGISTERED PATENT AGENT INPA-3311
On Behalf of the Applicants

ABSTRACT

INNOVATIVE e-GOVERNANCE ENHANCING CITIZEN PARTICIPATION THROUGH ADVANCED AI TECHNOLOGIES

This research explores innovative approaches in e-governance leveraging advanced AI technologies to enhance citizen participation. The proposed model aims to revolutionize how governments interact with citizens by employing Machine Learning (ML) concepts such as Natural Language Processing (NLP) and Deep Learning (DL). By enhancing accessibility, responsiveness, and transparency, this framework seeks to create a more inclusive and engaged civic environment.

#####DIGITALLY SIGNED#####
PREM CHARLES I
REGISTERED PATENT AGENT INPA-3311
On Behalf of the Applicants

Applicants: Dr. Venkateswarlu Ch, Jithin S, Dr. Jawaharrani K, Esakkiammal S, Dr. M. Thaiyalnayaki, Dr. Gokulakrishnan A, Dr. Ashok Kumar Katta and Dr. Sasikumar P.

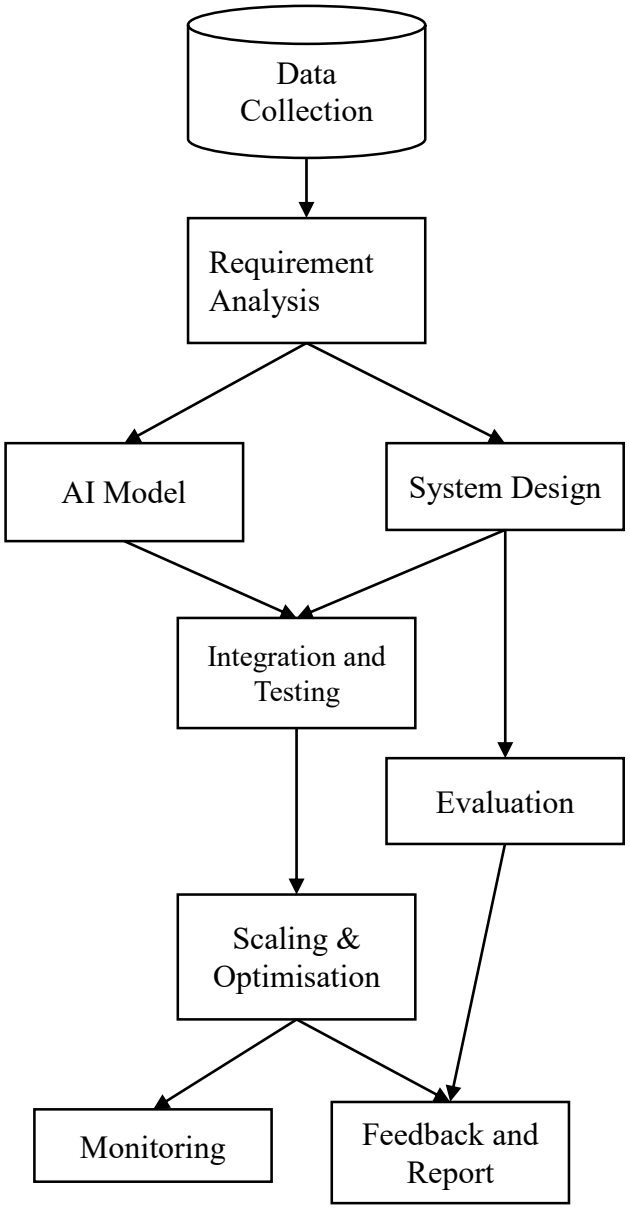

Figure 1

#####DIGITALLY SIGNED#####
PREM CHARLES I
REGISTERED PATENT AGENT INPA-3311
On Behalf of the Applicants

FORM 5

THE PATENT ACT, 1970
(39 of 1970)
&
THE PATENTS RULES, 2003

DECLARATION AS TO INVENTORSHIP

[See section 10(6) and rule 13(6)]

1. NAME OF APPLICANT(S) **Dr. Venkateswarlu Ch, Jithin S, Dr. Jawaharrani K, Esakkiammal S, Dr. M. Thaiyalnayaki, Dr. Gokulakrishnan A, Dr. Ashok Kumar Katta, Dr. Sasikumar P,**

hereby declare that the true and first inventor(s) of the invention disclosed in the complete specification filed in pursuance of my/our application numbered **202441064051** dated **24/08/2024** is/are

2. INVENTOR(S)

Name	Country	Nationality	Address
Dr. Venkateswarlu Ch	India	India	Associate Professor, School of Law, Vels Institute of Science, Technology and Advanced Studies (VISTAS), Pallavaram, Chennai - 600117, Tamil Nadu, India.
Jithin S	India	India	Assistant Professor, School of Law, Vels Institute of Science, Technology and Advanced Studies (VISTAS), Pallavaram, Chennai - 600117, Tamil Nadu, India.
Dr. Jawaharrani K	India	India	Professor, Department of Management Studies, St Joseph's College of Engineering, OMR, Chennai - 600119, Tamil Nadu, India.
Esakkiammal S	India	India	Information Officer, Institute of Management, Nirma University, Sarkhej - Gandhinagar Highway, Gota, Tragad, Ahmedabad – 382481, Gujarat, India.
Dr. M. Thaiyalnayaki	India	India	Professor, Department of Commerce, Vels Institute of Science, Technology and Advanced Studies (VISTAS), Pallavaram, Chennai - 600117, Tamil Nadu, India.
Dr. Gokulakrishnan A	India	India	Assistant Professor, School of Management Studies, Department of Business Administration, Vels Institute of Science, Technology and Advanced Studies (VISTAS), Pallavaram, Chennai - 600117, Tamil Nadu, India.
Dr. Ashok Kumar Katta	India	India	Associate Professor, Department of Management Studies, Vels Institute of Science, Technology and Advanced Studies (VISTAS), Pallavaram, Chennai - 600117, Tamil Nadu, India.

Dr. Sasikumar P	India	India	Assistant Professor, School of Management Studies, Vels Institute of Science, Technology and Advanced Studies (VISTAS), Pallavaram, Chennai - 600117, Tamil Nadu, India.

Dated this. **24/08/2024**Day of **2024**

Signature

Name of the signatory

3. DECLATRATION TO BE GIVEN WHEN THE APPLICATION IN INDIA IS FILED BY THE APPLICANT(S) IN THE CONVENTION COUNTRY:--

We the applicant(s) in the convention country hereby declare that our right to apply for a patent in India is by way of assignment from the true and first inventor(s).

Dated this. **24/08/2024**.Day of **2024**

Signature

Name of the signatory

4. STATEMENT (to be signed by the additional inventor(s) not mentioned in the application form)

I/We assent to the invention referred to in the above declaration, being included in the complete specification filed in pursuance of the stated application.

Dated this(Final Payment Date):----------

Signature

Name of the signatory

This form is electronically generated.

FORM 1
THE PATENTS ACT, 1970
(39 of 1970)
&
THE PATENTS RULES, 2003
APPLICATION FOR GRANT OF PATENT
[See sections 7,54 & 135 and rule 20(1)]

(FOR OFFICE USE ONLY)

Application No.: .....
Filing Date: .....
Amount of Fee Paid: .....
CBR No.: .....
Signature: .....

1. APPLICANT(S):

Sr.No.	Name	Nationality	Address	Country	State	Distict	City
1	Dr. Venkateswarlu Ch	India	Associate Professor, School of Law, Vels Institute of Science, Technology and Advanced Studies (VISTAS), Pallavaram, Chennai - 600117, Tamil Nadu, India.	India	Tamil Nadu	Chennai	Chennai
2	Jithin S	India	Assistant Professor, School of Law, Vels Institute of Science, Technology and Advanced Studies (VISTAS),	India	Tamil Nadu	Chennai	Chennai

			Pallavaram, Chennai - 600117, Tamil Nadu, India.				
3	Dr. Jawaharrani K	India	Professor, Department of Management Studies, St Joseph's College of Engineering, OMR, Chennai - 600119, Tamil Nadu, India.	India	Tamil Nadu	Chennai	Chennai
4	Esakkiammal S	India	Information Officer, Institute of Management, Nirma University, Sarkhej - Gandhinagar Highway, Gota, Tragad, Ahmedabad – 382481, Gujarat, India.	India	Gujarat	Ahmedabad	Ahmedabad
5	Dr. M. Thaiyalnayaki	India	Professor, Department of Commerce, Vels Institute of Science, Technology and Advanced Studies (VISTAS), Pallavaram, Chennai - 600117, Tamil Nadu, India.	India	Tamil Nadu	Chennai	Chennai

6	Dr. Gokulakrishnan A	India	Assistant Professor, School of Management Studies, Department of Business Administration, Vels Institute of Science, Technology and Advanced Studies (VISTAS), Pallavaram, Chennai - 600117, Tamil Nadu, India.	India	Tamil Nadu	Chennai	Chennai
7	Dr. Ashok Kumar Katta	India	Associate Professor, Department of Management Studies, Vels Institute of Science, Technology and Advanced Studies (VISTAS), Pallavaram, Chennai - 600117, Tamil Nadu, India.	India	Tamil Nadu	Chennai	Chennai
8	Dr. Sasikumar P	India	Assistant Professor, School of Management Studies, Vels Institute of Science, Technology and	India	Tamil Nadu	Chennai	Chennai

			Advanced Studies (VISTAS), Pallavaram, Chennai - 600117, Tamil Nadu, India.				

2. INVENTOR(S):

Sr.No.	Name	Nationality	Address	Country	State	Distict	City
1	Dr. Venkateswarlu Ch	India	Associate Professor, School of Law, Vels Institute of Science, Technology and Advanced Studies (VISTAS), Pallavaram, Chennai - 600117, Tamil Nadu, India.	India	Tamil Nadu	Chennai	Chennai
2	Jithin S	India	Assistant Professor, School of Law, Vels Institute of Science, Technology and Advanced Studies (VISTAS), Pallavaram, Chennai -	India	Tamil Nadu	Chennai	Chennai

			600117, Tamil Nadu, India.				
3	Dr. Jawaharrani K	India	Professor, Department of Management Studies, St Joseph's College of Engineering, OMR, Chennai - 600119, Tamil Nadu, India.	India	Tamil Nadu	Chennai	Chennai
4	Esakkiammal S	India	Information Officer, Institute of Management, Nirma University, Sarkhej - Gandhinagar Highway, Gota, Tragad, Ahmedabad – 382481, Gujarat, India.	India	Gujarat	Ahmedabad	Ahmedabad
5	Dr. M. Thaiyalnayaki	India	Professor, Department of Commerce, Vels Institute of Science, Technology and Advanced Studies (VISTAS), Pallavaram, Chennai - 600117, Tamil Nadu, India.	India	Tamil Nadu	Chennai	Chennai

6	Dr. Gokulakrishnan A	India	Assistant Professor, School of Management Studies, Department of Business Administration, Vels Institute of Science, Technology and Advanced Studies (VISTAS), Pallavaram, Chennai - 600117, Tamil Nadu, India.	India	Tamil Nadu	Chennai	Chennai
7	Dr. Ashok Kumar Katta	India	Associate Professor, Department of Management Studies, Vels Institute of Science, Technology and Advanced Studies (VISTAS), Pallavaram, Chennai - 600117, Tamil Nadu, India.	India	Tamil Nadu	Chennai	Chennai
8	Dr. Sasikumar P	India	Assistant Professor, School of Management Studies, Vels Institute of Science, Technology and	India	Tamil Nadu	Chennai	Chennai

			Advanced Studies (VISTAS), Pallavaram, Chennai - 600117, Tamil Nadu, India.				

3. TITLE OF THE INVENTION: INNOVATIVE e-GOVERNANCE ENHANCING CITIZEN PARTICIPATION THROUGH ADVANCED AI TECHNOLOGIES

4. ADDRESS FOR CORRESPONDENCE OF APPLICANT / AUTHORISED PATENT AGENT IN INDIA:

Allinnov Research and Development Private Limited, #360E, Senthur Murugan Kovil Street, Opp. SM Mahal, Oldpet, Krishnagiri - 635001, Tamil Nadu, India.

Telephone No.:
Fax No.:
Mobile No: 9790586194
E-mail: patents@allinnov.org

5. PRIORITY PARTICULARS OF THE APPLICATION(S) FILED IN CONVENTION COUNTRY:

Sr.No.	Country	Application Number	Filing Date	Name of the Applicant	Tilte of the Invention

6. PARTICULARS FOR FILING PATENT COOPERATION TREATY (PCT) NATIONAL PHASE APPLICATION:

International Application Number	International Filing Date as Allotted by the Receiving Office
PCT//	

7. PARTICULARS FOR FILING DIVISIONAL APPLICATION

Original (first) Application Number	Date of Filing of Original (first) Application

8. PARTICULARS FOR FILING PATENT OF ADDITION:

Main Application / Patent Number:	Date of Filing of Main Application

9. DECLARATIONS:

(i) Declaration by the inventor(s)

I/We ,Dr. Venkateswarlu Ch,Jithin S,Dr. Jawaharrani K,Esakkiammal S,Dr. M. Thaiyalnayaki,Dr. Gokulakrishnan A,Dr. Ashok Kumar Katta,Dr. Sasikumar P, is/are the true & first inventor(s) for this invention and declare that the applicant(s) herein is/are my/our assignee or legal representative.

(a) Date: -----

(b) Signature(s) of the inventor(s): .....

(c) Name(s): Dr. Venkateswarlu Ch,Jithin S,Dr. Jawaharrani K,Esakkiammal S,Dr. M. Thaiyalnayaki,Dr. Gokulakrishnan A,Dr. Ashok Kumar Katta,Dr. Sasikumar P

(ii) Declaration by the applicant(s) in the convention country

I/We, the applicant(s) in the convention country declare that the applicant(s) herein is/are my/our assignee or legal representative.

(a) Date: -----

(b) Signature(s) : .....

(c) Name(s) of the singnatory: Dr. Venkateswarlu Ch,Jithin S,Dr. Jawaharrani K,Esakkiammal S,Dr. M. Thaiyalnayaki,Dr. Gokulakrishnan A,Dr. Ashok Kumar Katta,Dr. Sasikumar P

(iii) Declaration by the applicant(s)

- **The Complete specification relating to the invention is filed with this application.**

- **I am/We are, in the possession of the above mentioned invention.**
- **There is no lawful ground of objection to the grant of the Patent to me/us.**

10. FOLLOWING ARE THE ATTACHMENTS WITH THE APPLICATION:

Sr.	Document Description	FileName

I/We hereby declare that to the best of my/our knowledge, information and belief the fact and matters stated hering are correct and I/We request that a patent may be granted to me/us for the said invention.

Dated this(Final Payment Date): ----------

Signature: .....

Name: PREM CHARLES

To The Controller of Patents

The Patent office at CHENNAI

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FORM 3

THE PATENT ACT, 1970
(39 of 1970)
AND
THE PATENTS RULES, 2003
STATEMENT AND UNDERTAKING UNDER SECTION 8
[(See section 8; Rule 12)]

1. Name of the applicant(s).	I/We **Dr. Venkateswarlu Ch, Associate Professor, School of Law, Vels Institute of Science, Technology and Advanced Studies (VISTAS), Pallavaram, Chennai - 600117, Tamil Nadu, India.,** Applicant Type **- NP** , hereby declare:
2. Name, address and nationality of the joint applicant.	(i) that I/We who have made the application for patent number **202441064051** in India, dated **24/08/2024 11:16:00**., alone / jointly with **Jithin S, Dr. Jawaharrani K, Esakkiammal S, Dr. M. Thaiyalnayaki, Dr. Gokulakrishnan A, Dr. Ashok Kumar Katta, Dr. Sasikumar P**. (ii) that I/We have not made any application for the same/substantially the same invention outside India Or (iii) that I/We have made for the same/ substantially same invention, application(s) for patent in the other countries, the particulars of which are given below:

Name of the country	Date of application	Application No.	Status of the application	Date of publication	Date of disposal
NA	NA	NA	NA	NA	NA

3. Name and address of the assignee	(i) that the rights in the application(s) filed in India has/have been assigned to **None. All rights remain with the applicants only.** . (ii) that I/We undertake that upto the date of grant of the patent by the Controller, I/We would keep him informed in writing regarding the details of corresponding applications for patents filed outside India in accordance with the provisions contained in section 8 and rule 12. Dated this **24th** day of **August 2024**
4. To be signed by the applicant or his authorized registered patent agent.	Signature(s) .....
5. Name of the natural person who has signed.	

	.....
	To The Controller of Patents, The Patent Office, at **New Delhi**
Note: ” Strike out whichever is not applicable; ”	

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FORM 5

THE PATENT ACT, 1970
(39 of 1970)
&
THE PATENTS RULES, 2003

DECLARATION AS TO INVENTORSHIP

[See section 10(6) and rule 13(6)]

1. NAME OF APPLICANT(S) **Dr. Venkateswarlu Ch, Jithin S, Dr. Jawaharrani K, Esakkiammal S, Dr. M. Thaiyalnayaki, Dr. Gokulakrishnan A, Dr. Ashok Kumar Katta, Dr. Sasikumar P,**

hereby declare that the true and first inventor(s) of the invention disclosed in the complete specification filed in pursuance of my/our application numbered **202441064051** dated **24/08/2024** is/are

2. INVENTOR(S)

Name	Country	Nationality	Address
Dr. Venkateswarlu Ch	India	India	Associate Professor, School of Law, Vels Institute of Science, Technology and Advanced Studies (VISTAS), Pallavaram, Chennai - 600117, Tamil Nadu, India.
Jithin S	India	India	Assistant Professor, School of Law, Vels Institute of Science, Technology and Advanced Studies (VISTAS), Pallavaram, Chennai - 600117, Tamil Nadu, India.
Dr. Jawaharrani K	India	India	Professor, Department of Management Studies, St Joseph's College of Engineering, OMR, Chennai - 600119, Tamil Nadu, India.
Esakkiammal S	India	India	Information Officer, Institute of Management, Nirma University, Sarkhej - Gandhinagar Highway, Gota, Tragad, Ahmedabad – 382481, Gujarat, India.
Dr. M. Thaiyalnayaki	India	India	Professor, Department of Commerce, Vels Institute of Science, Technology and Advanced Studies (VISTAS), Pallavaram, Chennai - 600117, Tamil Nadu, India.
Dr. Gokulakrishnan A	India	India	Assistant Professor, School of Management Studies, Department of Business Administration, Vels Institute of Science, Technology and Advanced Studies (VISTAS), Pallavaram, Chennai - 600117, Tamil Nadu, India.
Dr. Ashok Kumar Katta	India	India	Associate Professor, Department of Management Studies, Vels Institute of Science, Technology and Advanced Studies (VISTAS), Pallavaram, Chennai - 600117, Tamil Nadu, India.

Dr. Sasikumar P	India	India	Assistant Professor, School of Management Studies, Vels Institute of Science, Technology and Advanced Studies (VISTAS), Pallavaram, Chennai - 600117, Tamil Nadu, India.

Dated this. **24/08/2024**Day of **2024**

Signature

Name of the signatory

3. DECLATRATION TO BE GIVEN WHEN THE APPLICATION IN INDIA IS FILED BY THE APPLICANT(S) IN THE CONVENTION COUNTRY:--

We the applicant(s) in the convention country hereby declare that our right to apply for a patent in India is by way of assignment from the true and first inventor(s).

Dated this. **24/08/2024**.Day of **2024**

Signature

Name of the signatory

4. STATEMENT (to be signed by the additional inventor(s) not mentioned in the application form)

I/We assent to the invention referred to in the above declaration, being included in the complete specification filed in pursuance of the stated application.

Dated this(Final Payment Date):----------

Signature

Name of the signatory

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FORM 9

THE PATENT ACT, 1970
(39 of 1970)
&
THE PATENTS RULES, 2003

REQUEST FOR PUBLICATION

[See section 11A (2) rule 24A]

I/We **Dr. Venkateswarlu Ch,Jithin S,Dr. Jawaharrani K,Esakkiammal S,Dr. M. Thaiyalnayaki,Dr. Gokulakrishnan A,Dr. Ashok Kumar Katta,Dr. Sasikumar P** hereby request for early publication of my/our [Patent Application No.] TEMP/E-1/74439/2024-CHE

Dated **24/08/2024 00:00:00** under section 11A(2) of the Act.

Dated this(Final Payment Date):----------
Signature
Name of the signatory

To,
The Controller of Patents,
The Patent Office,
At Chennai

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FORM 9

THE PATENT ACT, 1970
(39 of 1970)
&
THE PATENTS RULES, 2003

REQUEST FOR PUBLICATION

[See section 11A (2) rule 24A]

I/We **Dr. Venkateswarlu Ch,Jithin S,Dr. Jawaharrani K,Esakkiammal S,Dr. M. Thaiyalnayaki,Dr. Gokulakrishnan A,Dr. Ashok Kumar Katta,Dr. Sasikumar P** hereby request for early publication of my/our [Patent Application No.] TEMP/E-1/74439/2024-CHE

Dated **24/08/2024 00:00:00** under section 11A(2) of the Act.

Dated this(Final Payment Date):----------
Signature
Name of the signatory

To,
The Controller of Patents,
The Patent Office,
At Chennai

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Office of the Controller General of Patents, Designs & Trade Marks
Department for Promotion of Industry and Internal Trade
Ministry of Commerce & Industry,
Government of India

(http://ipindia.nic.in/index.htm)

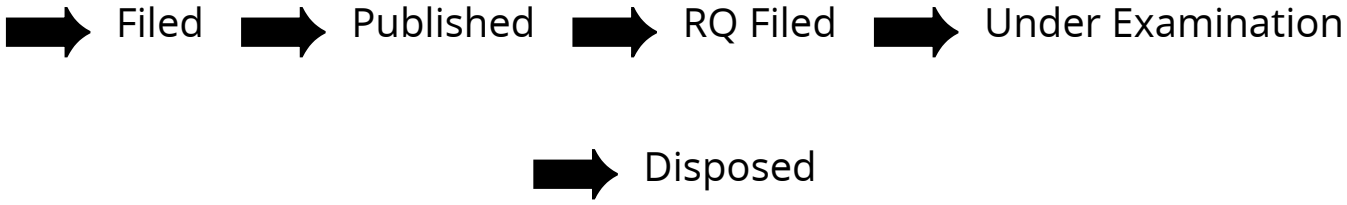
(http://ipindia.nic.in/index.htm)

Application Details	
APPLICATION NUMBER	202441075562
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	06/10/2024
APPLICANT NAME	1 . Dr. V. Sarala Devi 2 . Mrs. N. Bhuvaneshwari 3 . Ms. S. Saikripa 4 . Dr. V. Brinda Shree 5 . Dr. K. N. Uma Devi 6 . Dr. B. S. Gomathi 7 . Dr. S. Gandhimathi 8 . Dr. R. Kanagaselvam
TITLE OF INVENTION	AI - ENHANCED ENGLISH LANGUAGE LEARNING PLATFORM
FIELD OF INVENTION	ELECTRONICS
E-MAIL (As Per Record)	subramaniannagu@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	18/10/2024

Application Status

APPLICATION STATUS	Awaiting Request for Examination

View Documents



In case of any discrepancy in status, kindly contact ipo-helpdesk@nic.in

Office of the Controller General of Patents, Designs & Trade Marks
Department for Promotion of Industry and Internal Trade
Ministry of Commerce & Industry,
Government of India

(http://ipindia.nic.in/index.htm)

(http://ipindia.nic.in/index.htm)

Application Details	
APPLICATION NUMBER	202441094771
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	02/12/2024
APPLICANT NAME	1 . Dr Padmasri Mishra 2 . Dr. Nancy Sebastina J 3 . Mrs.S.Viji 4 . Ms.K.Bhavadharani 5 . Dr.H. Jayamangala 6 . Dr R Jayasri 7 . Mrs.M. Sindhu 8 . Dr.M.Praveena 9 . Mr.P.Manikandan 10 . Mrs.K.Gowthami
TITLE OF INVENTION	ENTREPRENEURIAL COMPETENCY PREDICTION USING MACHINE LEARNING
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	senanipindia@gmail.com
ADDITIONAL-EMAIL (As Per Record)	editorsipofficial@gmail.com
E-MAIL (UPDATED Online)	

PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	13/12/2024

Application Status	
APPLICATION STATUS	**Awaiting Request for Examination**

View Documents

➡ Filed ➡ Published ➡ RQ Filed ➡ Under Examination ➡ Disposed

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Office of the Controller General of Patents, Designs & Trade Marks
Department for Promotion of Industry and Internal Trade
Ministry of Commerce & Industry,
Government of India

(http://ipindia.nic.in/index.htm)

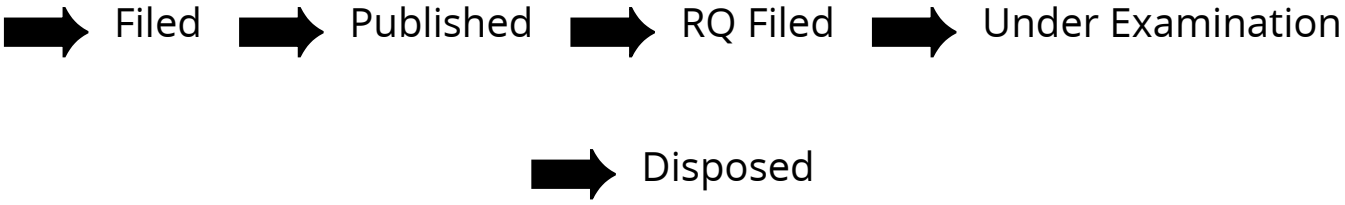
(http://ipindia.nic.in/index.htm)

Application Details	
APPLICATION NUMBER	202441095847
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	05/12/2024
APPLICANT NAME	1 . Mr. J. Johny Sebastine 2 . Dr. M. Nivaashini 3 . Paul James Maria Susai Michael 4 . Mr. Oluwafemi Ajala 5 . Ms.A.Anusankari 6 . Dr A Vijayalakshmi 7 . Ms.G.Mahalakshmi 8 . Mrs.M.Sasikala
TITLE OF INVENTION	HYBRID 5G AND AI-DRIVEN IMAGE PROCESSING FOR HEALTHCARE AND SMART DEVICES
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
E-MAIL (As Per Record)	patent.vaagaiip@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	13/12/2024

Application Status

APPLICATION STATUS	Awaiting Request for Examination

			View Documents



In case of any discrepancy in status, kindly contact ipo-helpdesk@nic.in

Office of the Controller General of Patents, Designs & Trade Marks
Department for Promotion of Industry and Internal Trade
Ministry of Commerce & Industry,
Government of India

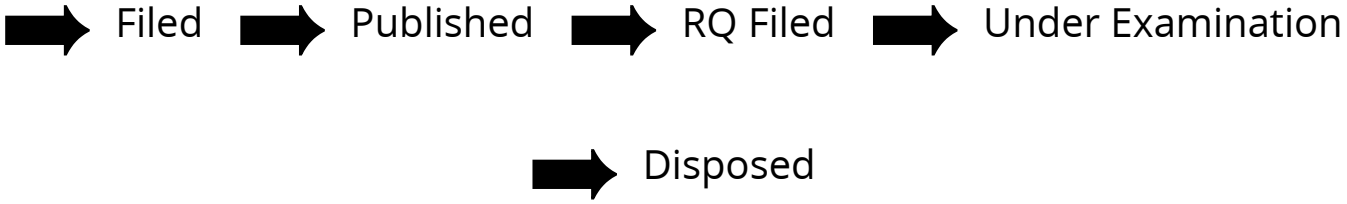
(http://ipindia.nic.in/index.htm)

(http://ipindia.nic.in/index.htm)

Application Details	
APPLICATION NUMBER	202441099176
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	15/12/2024
APPLICANT NAME	1 . Dr. UDHAYAKUMAR.M 2 . Dr. ISHTIYAQ AHMAD SHAH 3 . Dr.V.MURUGALAKSHMI 4 . Dr.NINGANNA 5 . Dr.R.MOHANA 6 . Mr. NARESH S 7 . Dr.THAMARAI SELVI M.D 8 . Dr.K.VIJI 9 . Ms. S. SAIKRIPA 10 . K.V.R.PRASANNA KUMARI 11 . Dr. K N UMA DEVI 12 . Mrs. T. JENIFER
TITLE OF INVENTION	ANALYSIS OF THE IMPORTANCE OF VOCABULARY IN SECOND LANGUAGE LEARNING
FIELD OF INVENTION	ELECTRONICS
E-MAIL (As Per Record)	arinnapatent@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	20/12/2024

Application Status	
APPLICATION STATUS	**Awaiting Request for Examination**

View Documents



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Department for Promotion of Industry and Internal Trade
Ministry of Commerce & Industry,
Government of India

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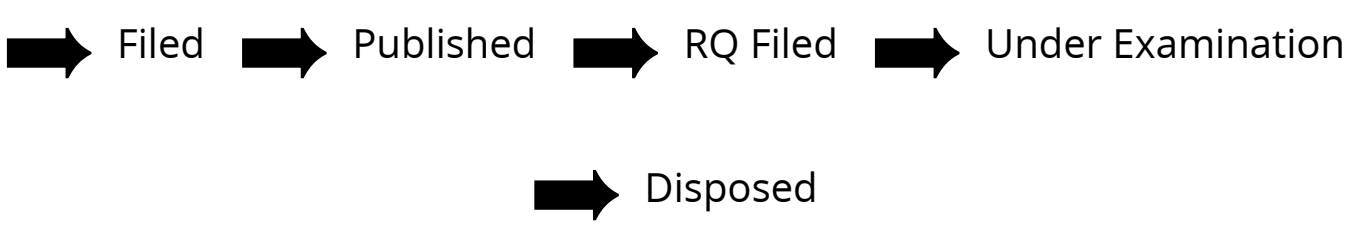
(http://ipindia.nic.in/index.htm)

Application Details	
APPLICATION NUMBER	202441099993
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	17/12/2024
APPLICANT NAME	1 . PROF.DR.K.DHARMARAJAN 2 . DR.K.ABIRAMI 3 . T HARIPRIYA
TITLE OF INVENTION	Deep Learning-Powered Framework for Liver Lesion Detection and Classification
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	senanipindia@gmail.com
ADDITIONAL-EMAIL (As Per Record)	info@thelemainfotech.net
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	03/01/2025

Application Status	
APPLICATION STATUS	Awaiting Request for Examination

View Documents



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Certificate of Registration for a UK Design

Design number: 6367813

Grant date: 31 May 2024

Registration date: 23 May 2024

This is to certify that,

in pursuance of and subject to the provision of Registered Designs Act 1949, the design of which a representation or specimen is attached, had been registered as of the date of registration shown above in the name of

Ms. Parvathavarthini Kalyanasundaram, Dr. Mehulkumar Ghanshyamdas

Thakkar, Prof. (Dr.) Namita Rajput, Shweta Dahiya, Dr. Jigyasu Kumar, Mr.

Mahesh Swami, Prof.(Dr.) Urvashi Sharma, Dr. Anurag Shrivastava

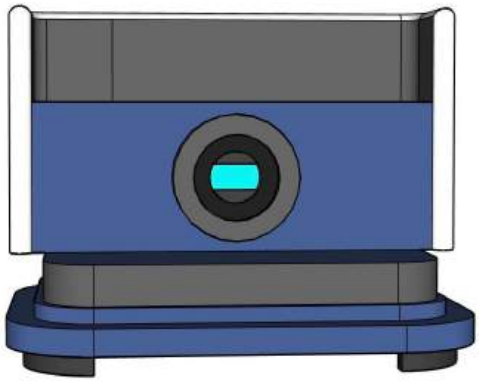
in respect of the application of such design to:

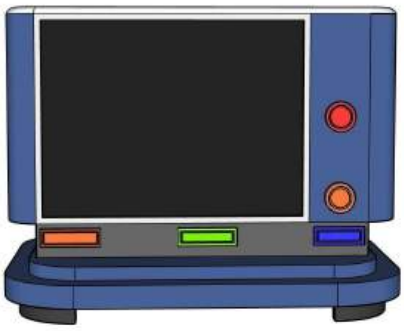
ML Based Measuring Device for Employee Efficiency

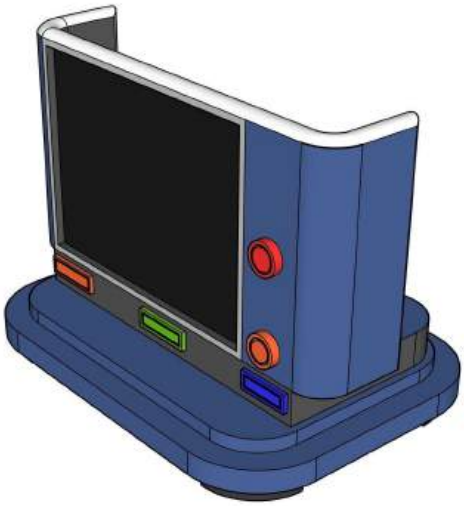
International Design Classification:
Version: 14-2023
Class: 14 RECORDING, TELECOMMUNICATION OR DATA PROCESSING EQUIPMENT
Subclass: 02 DATA PROCESSING EQUIPMENT AS WELL AS PERIPHERAL APPARATUS AND DEVICES

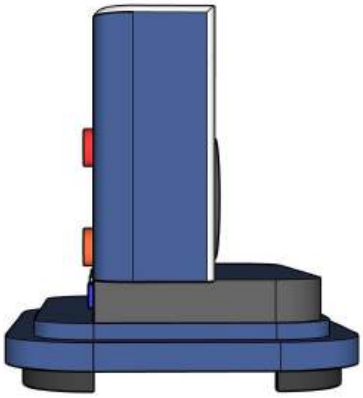
Adam Williams
Comptroller-General of Patents, Designs and Trade Marks
Intellectual Property Office
The attention of the Proprietor(s) is drawn to the important notes overleaf.

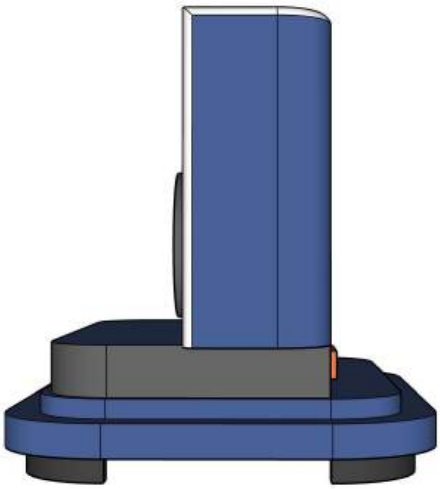
Representation of Designs

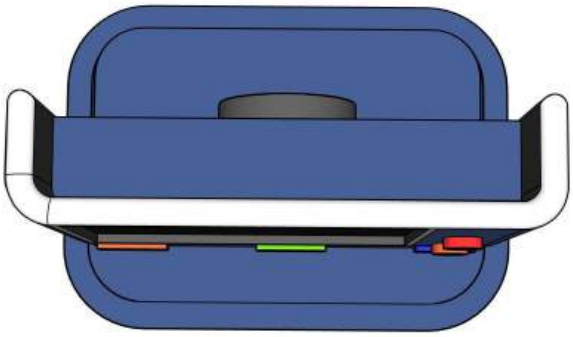












Design number

6370003

Status	Registration date	Renewal date
Registered	**4 June 2024**	**4 June 2029**

Overview | Illustrations | Names and addresses | History

Application date	Grant date	Publication date
4 June 2024	**13 June 2024**	**14 June 2024**

Indication of Product

Smart Brain Monitoring Headset

Classification

Class	14 - RECORDING, TELECOMMUNICATION OR DATA PROCESSING EQUIPMENT
Sub class	02 - DATA PROCESSING EQUIPMENT AS WELL AS PERIPHERAL APPARATUS AND DEVICES

Design number

6370003

Status	Registration date	Renewal date
Registered	**4 June 2024**	**4 June 2029**

Overview | Illustrations | Names and addresses | History

Contact (address for service)

Vats IPR Services
13-15 TRAFALGAR ROAD, BLACKPOOL, FY1 6AW

Owners

Name	Address
Dr.Maddala Vinaya Babu	Associate Professor, Department of CSE, Teegala Krishna Reddy Engineering College, Meerpet, Hyderabad -500097
Sowmya Hari	Assistant Professor, Department of Bioengineering, Vels Institute of Science Technology and Advanced Studies, Pallavaram, Chennai
Dr. Piyush Charan	Associate Professor, Dept. of Electronics and Communication Engineering, Manav Rachna University, Faridabad, Haryana, 121004
Asheesh Pandey	Senior Assistant Professor, Department of Computer Applications, ABES Engineering College, Ghaziabad 201009
Vijayalakshmi Renganathan	Assistant Professor, St. Peter's Institute of Higher Education and Research, Avadi, Chennai - 54
Dr. Shalin Selvanayagom	Professor cum Principal, Bishnupur Public School and College of Nursing, Bishnupur, Bankura
Dr. Ranjana Choudhary Ahirwar	Assistant Professor, Department of Chemistry, IPS Academy Institute of Engineering & Science, Indore, 452012
Dr. Amit Chauhan	Department of Life Sciences, CHRIST University, Bengaluru, Karnataka
Supriya Shrikant Telsang	Assistant Professor, Computer Science & Engineering, Vishwakarma Institute of Technology, Pune, 411037
Dr. Ramanjeet Singh	Executive Director, Chandigarh University, Gharuan, Mohali, Punjab-140413

Certificate of Registration for a UK Design

Design number: 6386735

Grant date: 04 September 2024

Registration date: 27 August 2024

This is to certify that,

in pursuance of and subject to the provision of Registered Designs Act 1949, the design of which a representation or specimen is attached, had been registered as of the date of registration shown above in the name of

Dr. VISNU DHARSINI SUDARMANI, Dr.PRIYA SUBRAMANIAN , Dr. DEVA

HEMA DEVARAJ, Ms. SRINARAYANI KALYANARAMAN, Ms. MOHANA PRIYA

PADMANABHAN, Dr. RAJESH KANNA RAVI

in respect of the application of such design to:

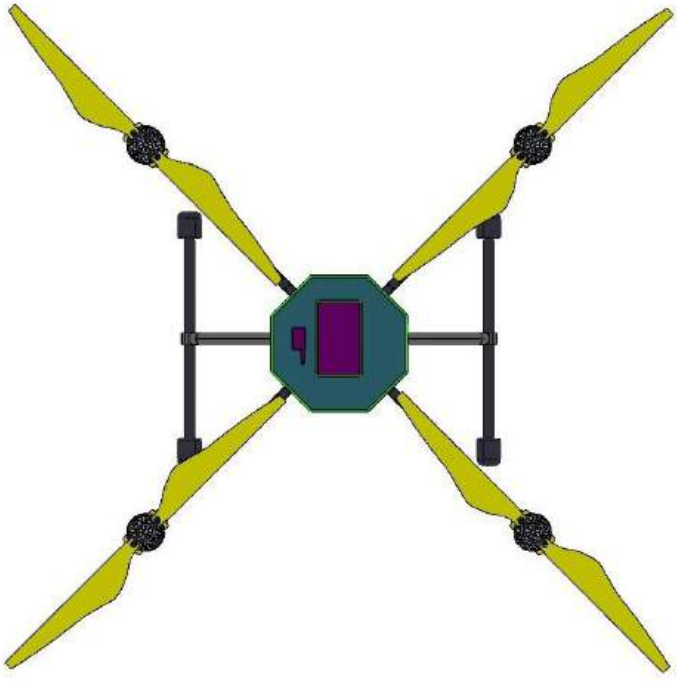
AGRICULTURAL DRONE FOR CROP HEALTH MONITORING

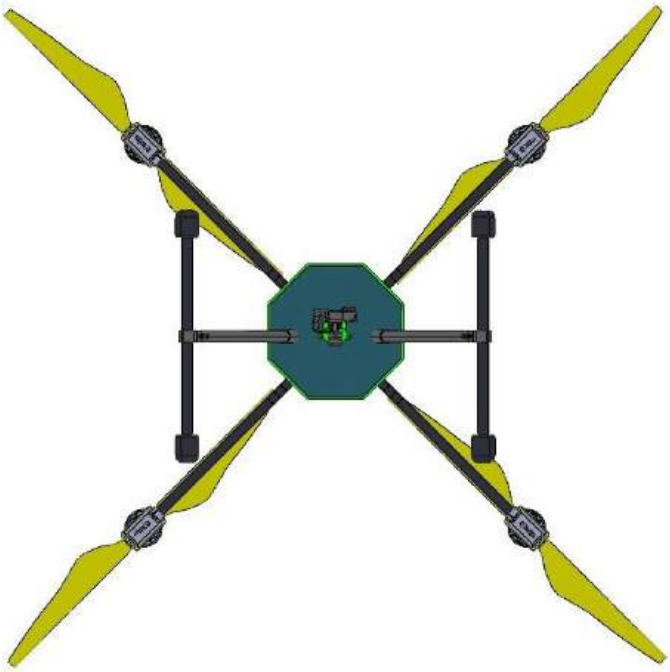
International Design Classification:
Version: 14-2023
Class: 15 MACHINES, NOT ELSEWHERE SPECIFIED
Subclass: 03 AGRICULTURAL AND FORESTRY MACHINERY

Version: 14-2023
Class: 12 MEANS OF TRANSPORT OR HOISTING
Subclass: 07 AIRCRAFT AND SPACE VEHICLES

Adam Williams
Comptroller-General of Patents, Designs and Trade Marks
Intellectual Property Office
The attention of the Proprietor(s) is drawn to the important notes overleaf.

Representation of Designs





Intellectual Property Office

Registered design
[UNCERTIFIED COPY]

Design details

Design application number
6390556

Filing date (provisional)
13 September 2024

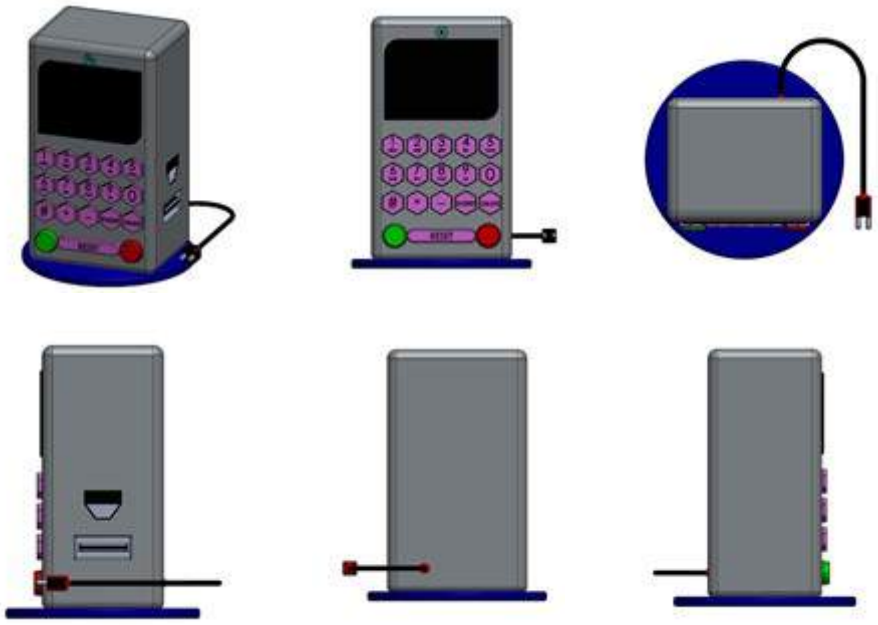
Defer registration
No

Design
SYSTEM FOR EFFICIENT SUPPLY CHAIN AND LOGISTICS MANAGEMENT

Additional description
None

Illustration disclaimer
None

Illustrations



Repeated surface pattern

No

Priority claims

None

Owner details

Dr. MUTHU RAMAN KAVITHA
Professor, Department of Commerce[CA], Vels Institute of Science, technology & Advanced studies, Pallavaram, Chennai , 600117, India

Dr.GANAPATI SAMPATHKUMAR MAHESWARI
Professor, Department of Commerce, Vels Institute of Science, technology & Advanced studies, Pallavaram, Chennai , 600117, India

Dr. VELAN SHANTHI
Assistant Professor, Department of Commerce, Vels Institute of Science, technology & Advanced studies, Pallavaram, Chennai , 600117, India

Mrs.KALYANKUMAR SHRUTHI
Research Scholar, Department of Commerce, Vels Institute of science, Technology and Advanced studies (VISTAS), CHENNAI , 600117, India

Puthuppallil Radhakrishnan
Assistant Professor, Marian Academy of Management Studies, Puthuppady P O, Ernakulam District, Kerala, 682011, India

Smruthi Rekha Patro
Research Scholar, Department of Commerce, Vels Institute of science Technology and Advanced , (VISTAS) , CHENNAI, 600117, India

Elizebath Ligia Fernandez
Research Scholar, Department of Commerce, Vels Institute of science Technology and Advanced , (VISTAS), CHENNAI , 600117, India

Vandana Mappala
Assistant Professor, Department of Commerce, College Of Applied Science, IHRD, Kiliyanad, Kozhikode , Kerala, 673001, India

Contact details

Ankita Jain
NexGenIPR Solutions
Office 5833, 182-184 High Street North, East Ham, London, E6 2JA, United Kingdom
Email: ankita@nexgenipr.com
Phone: 8882835675

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Intellectual Property Office

Certificate of Registration for a UK Design

Design number: 6391355

Grant date: 09 October 2024

Registration date: 17 September 2024

This is to certify that,

in pursuance of and subject to the provision of Registered Designs Act 1949, the design of which a representation or specimen is attached, had been registered as of the date of registration shown above in the name of

Dr. Hemali Jha, Vaithiyanathan Manivasagam, Dr. Bhuvaneshwari Jolad, Dr.

Rajesh Gouri, Dr. Sheela Gowr Ponrama Subbu, Peelamedu Govindaraj

Priyadarsini, Deepa Rani, Dr. Bhaskar Kapoor, Prof. Dr. Muhammad Nauman

Aftab, Dr. Ayyappa Chakravarthi Metlapalli

in respect of the application of such design to:

Blood glucose monitoring device

International Design Classification:
Version: 14-2023
Class: 24 MEDICAL AND LABORATORY EQUIPMENT
Subclass: 01 APPARATUS AND EQUIPMENT FOR DOCTORS, HOSPITALS AND LABORATORIES

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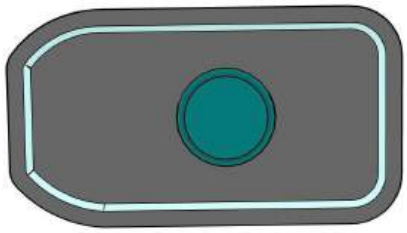
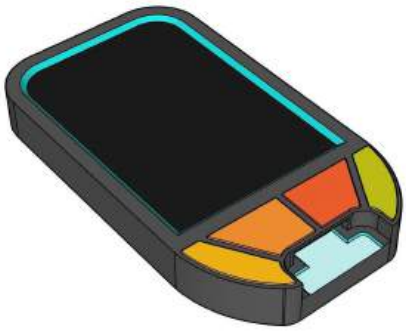
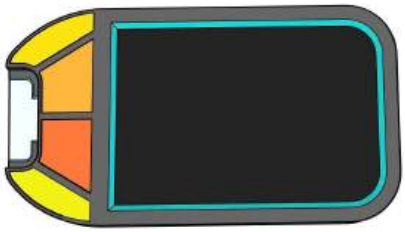
Comptroller-General of Patents, Designs and Trade Marks
Intellectual Property Office
The attention of the Proprietor(s) is drawn to the important notes overleaf.

Representation of Designs







Intellectual Property Office

Certificate of Registration for a UK Design

Design number: 6397727

Grant date: 17 October 2024

Registration date: 14 October 2024

This is to certify that,

in pursuance of and subject to the provision of Registered Designs Act 1949, the design of which a representation or specimen is attached, had been registered as of the date of registration shown above in the name of

Dr. Ankit Agarwal, Dr. Kavita Khatana, Dr. Gayathri Devi, Dr. Muthukumar

Subramanian, Dr. Mehak Jonjua, Dr. Neetu Bhadouria, Dr.Varadala Sridhar

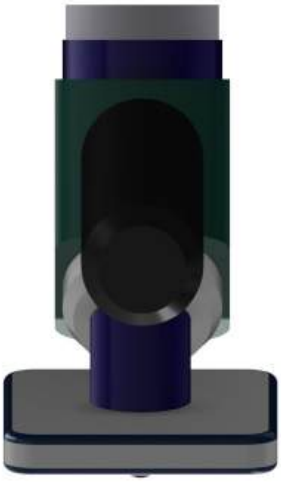
in respect of the application of such design to:

Artificial Intelligence Based Cervical Cancer Detection Device

International Design Classification:
Version: 14-2023
Class: 24 MEDICAL AND LABORATORY EQUIPMENT
Subclass: 01 APPARATUS AND EQUIPMENT FOR DOCTORS, HOSPITALS AND LABORATORIES

Adam Williams
Comptroller-General of Patents, Designs and Trade Marks
Intellectual Property Office
The attention of the Proprietor(s) is drawn to the important notes overleaf.

Representation of Designs



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Ministry of Commerce & Industry,
Government of India

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GEOGRAPHICAL INDICATIONS

(http://ipindia.nic.in/index.htm)

Application Details	
APPLICATION NUMBER	202441005369
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	25/01/2024
APPLICANT NAME	1 . Dr. A. Loganathan 2 . Dr. S. Sreelakshmi 3 . Mr. Ajay Pal Singh 4 . Mr. Parvez Rahi 5 . Mr. Amit Kumar Jaiswal 6 . Dr. A. Selvaraj 7 . Mrs. T. Iswarya 8 . Ms. A. Punitha 9 . Dr. G. Jayaraman 10 . Dr. S. Senthamilselvi 11 . Dr. Harikumar Pallathadka
TITLE OF INVENTION	MATHEMATICAL FRAMEWORKS FOR SECURE CRYPTOGRAPHY USING ADVANCING ENCRYPTION TECHNOLOGIES
FIELD OF INVENTION	COMMUNICATION
E-MAIL (As Per Record)	patentpointservices@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	09/02/2024

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Department for Promotion of Industry and Internal Trade
Ministry of Commerce & Industry,
Government of India

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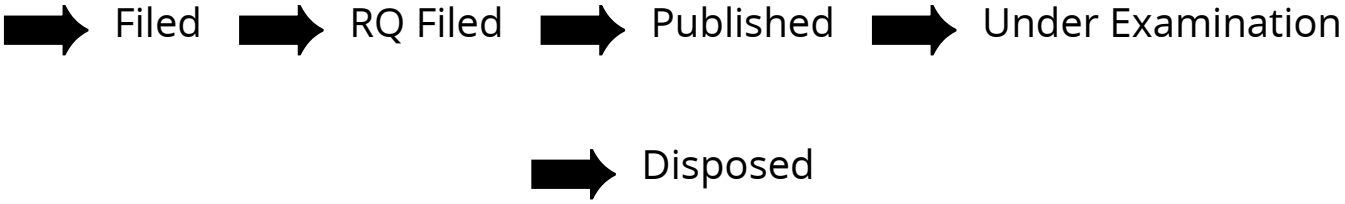
(http://ipindia.nic.in/index.htm)

Application Details	
APPLICATION NUMBER	202041039327
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	11/09/2020
APPLICANT NAME	Vels Institute of Science, Technology & Advanced Studies (VISTAS)
TITLE OF INVENTION	INNOVATION ON CNC LATHE TOOL POST WITH INTELLIGENT COOLING SYSTEM BY USING CRYOGENIC LIQUID NITROGEN(LN2) SYSTEM
FIELD OF INVENTION	MECHANICAL ENGINEERING
E-MAIL (As Per Record)	mail@inductip.com
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	11/09/2020
PUBLICATION DATE (U/S 11A)	18/09/2020
FIRST EXAMINATION REPORT DATE	09/12/2021
Date Of Certificate Issue	31/01/2025
POST GRANT JOURNAL DATE	07/02/2025
REPLY TO FER DATE	09/06/2022

Application Status

APPLICATION STATUS	**Granted Application, Patent Number :559315**

E-Register		Order(s)/Decision(s)	View Documents



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Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
Government of India

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(http://ipindia.nic.in/index.htm)

Application Details	
APPLICATION NUMBER	202311002037
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	10/01/2023
APPLICANT NAME	1 . Mr. Mohammad Muztaba 2 . Mr. Mateshwari Nandan 3 . Dr. R. E. Ugandar 4 . Dr.Punniyakoti Veeraveedu Thanikachalam 5 . Dr. P. Maheshwari 6 . Dr. Pravin Sampat Tajane 7 . Dr Sandeep Rathor 8 . Dr.Ch.TarakaRamarao 9 . Dr Mayank Joshi 10 . Dr. Ahmed Abdullah Khan 11 . Ms. Ankita Tiwari 12 . Mr. Altaf Husain
TITLE OF INVENTION	“A METHOD FOR INDIVIDUALIZED HEART FAILURE THERAPY WITH BUCINDOLOL BASED ON A PATIENT'S GENOTYPE OF POLYMORPHISMS IN THE ADRENERGIC RECEPTOR GENE”
FIELD OF INVENTION	BIO-CHEMISTRY
E-MAIL (As Per Record)	vaagaiip@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	13/01/2023

Application Status	
APPLICATION STATUS	**Awaiting Request for Examination**

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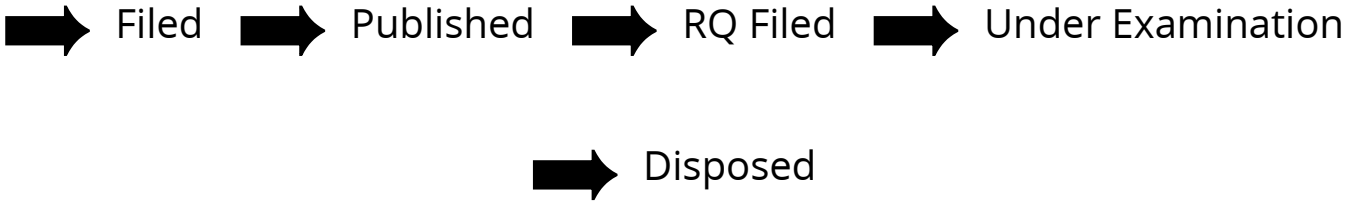

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Department for Promotion of Industry and Internal Trade
Ministry of Commerce & Industry,
Government of India

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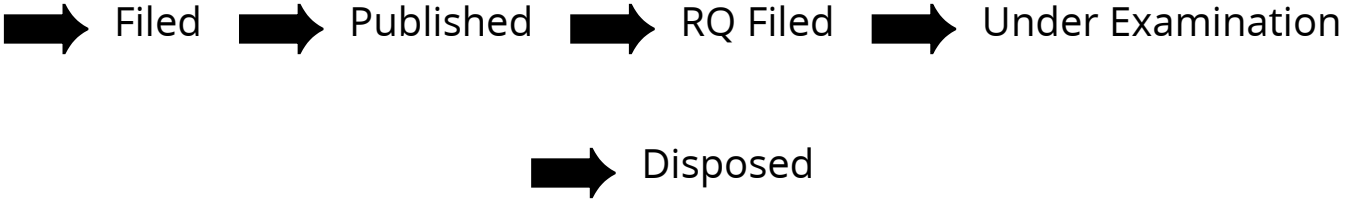
(http://ipindia.nic.in/index.htm)

Application Details	
APPLICATION NUMBER	202411008652
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	08/02/2024
APPLICANT NAME	1 . Sanjay Kumar Tuddu 2 . Dr.Rajeshwari S.Mathad 3 . Richa Grover 4 . Dr. Sheela Gowr Ponrama Subbu 5 . Asha Sohal 6 . Dr. Kavita Rani 7 . Sunny Kuhar 8 . Ambrish Kumar Sharma 9 . Dr Suneet Kumar 10 . Dr.Sandeep Kumar Hegde
TITLE OF INVENTION	MACHINE LEARNING BASED FRAUD APPS DETECTION USING SENTIMENT ANALYSIS AND BLOCK CHAIN TECHNOLOGY
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	senanipindia@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	16/02/2024

Application Status	
APPLICATION STATUS	**Awaiting Request for Examination**

View Documents



In case of any discrepancy in status, kindly contact ipo-helpdesk@nic.in

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/04/2024

(21) Application No.202411030788 A
(43) Publication Date : 10/05/2024

(54) Title of the invention : ANALYSIS OF HOW ONLINE VIDEO SHARING AND SOCIAL MEDIA PLATFORM DEVELOP THE ONLINE E- COMMERCE BUSINESS

(51) International classification :G06Q0030020000, G06Q0030060000, G06Q0050000000, G06Q0030000000, G06F0016951000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)Dr. NEHA PANDEY
Address of Applicant :ASSOCIATE PROFESSOR, HUMANITIES, BABU BANARASI DAS INSTITUTE OF TECHNOLOGY AND MANAGEMENT, LUCKNOW, UTTAR PRADESH-226028, INDIA Lucknow ---------- ----------
2)Dr. KANNAN VELLINGIRI
3)Dr. T.SUJATHA
4)Ms. JOSEPHIN BHARATHI VEGE
5)Dr.C.SHALINI
6)Ms.N.SRIMATHI
7)Mr.J LOGESHWARAN
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)Dr. NEHA PANDEY
Address of Applicant :ASSOCIATE PROFESSOR, HUMANITIES, BABU BANARASI DAS INSTITUTE OF TECHNOLOGY AND MANAGEMENT, LUCKNOW, UTTAR PRADESH-226028, INDIA Lucknow ---------- ----------
2)Dr. KANNAN VELLINGIRI
Address of Applicant :CLDC RESEARCH AND DEVELOPMENT, NO.997, METTUPALAYAM ROAD, NEAR X-CUT SIGNAL, R.S.PURAM, COIMBATORE, TAMIL NADU -641002. INDIA (BHARAT) Coimbatore ---------- ----------
3)Dr. T.SUJATHA
Address of Applicant :ASSISTANT PROFESSOR, COMMERCE (ACCOUNTING & FINANCE), VELS INSTITUTE OF SCIENCE, TECHNOLOGY AND ADVANCED STUDIES, PALLAVARAM, CHENNAI, TAMILNADU-600 117, INDIA Chennai ---------- ----------
4)Ms. JOSEPHIN BHARATHI VEGE
Address of Applicant :ASSISTANT PROFESSOR IN MASS MEDIA, BA MASS COMMUNICATION, LOYOLA ACADEMY DEGREE & PG COLLEGE, SECUNDERABAD, TELANGANA-500 010, INDIA Secunderabad ---------- ----------
5)Dr.C.SHALINI
Address of Applicant :PROFESSOR & HEAD, COMMERCE(ACCOUNTS & FINANCE), VELS INSTITUTE OF SCIENCE , TECHNOLOGY & ADVANCED STUDIES(VISTAS), CHENNAI, TAMILNADU, :600117, INDIA Chennai ---------- ----------
6)Ms.N.SRIMATHI
Address of Applicant :ASSISTANT PROFESSOR, B.COM DIGITAL MARKETING AND DATA MINING, DR.SNS RAJALAKSHMI COLLEGE OF ARTS AND SCIENCE , COIMBATORE, TAMILNADU -641110, INDIA Coimbatore ---------- ----------
7)Mr.J LOGESHWARAN
Address of Applicant :RESEARCH SCHOLAR, DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, SRI ESHWAR COLLEGE OF ENGINEERING, COIMBATORE- TAMIL NADU Coimbatore ---------- ----------

(57) Abstract :
ABSTRACT The rise of online video sharing and social media platforms has greatly impacted the development of the online e-commerce business. These platforms have created a whole new avenue for businesses to reach and interact with their target audience. In this technical abstract, we will analyze how these platforms have positively influenced the growth of e-commerce businesses. Firstly, online video sharing platforms such as YouTube, Vimeo, and TikTok have become popular mediums for businesses to showcase their products and services. Through the use of creative and engaging videos, businesses can effectively demonstrate the features and benefits of their offerings. This not only attracts potential customers but also helps to build a strong brand presence. With the availability of analytics, businesses can track the reach, engagement, and conversion rates of their video content, allowing them to make data-driven decisions for future strategies. Secondly, social media platforms like Facebook, Instagram, and Twitter have also played a crucial role in the development of e-commerce businesses. With billions of active users, these platforms offer a huge potential audience for businesses to connect and engage with. Through the use of targeted advertising and sponsored content, businesses can reach their specific target audience, increasing the chances of conversion. Moreover, social media platforms provide an opportunity for businesses to build a loyal customer base, as they can directly interact with their customers and address any queries or concerns, thus improving customer satisfaction. Furthermore, the integration of social media platforms and online e-commerce websites has further enhanced the online shopping experience for customers. For instance, the use of social login options on e-commerce websites allows customers to sign in using their social media accounts, making the checkout process more seamless and convenient. This not only saves time for customers but also provides businesses with valuable customer data for personalized marketing and remarketing strategies. In conclusion, the analysis clearly shows how the use of online video sharing and social media platforms has greatly contributed to the growth and success of the online e-commerce business. With the continuous advancements in technology and the increasing popularity of these platforms, it is safe to say that they will continue to shape and transform the e-commerce industry in the future.

No. of Pages : 11 No. of Claims : 6

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Government of India

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Application Details	
APPLICATION NUMBER	202411034445
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	30/04/2024
APPLICANT NAME	1 . Dr. Harpreet Singh 2 . Dr. Sheeba Santhosh 3 . Dr. Karamthoti MB 4 . Dr. A.S. Arunachalam 5 . Dr M. Shanmugathai 6 . Dr. Rao M 7 . Saravana Kumar.N 8 . Dr Dheeraj Malhotra 9 . Dr. S Nagakishore Bhavanam 10 . Dr. Vasujadevi Midasala
TITLE OF INVENTION	A NEW MODEL FOR DETECTING DEPRESSION FROM ORGANIZATION BY USING MULTIPLE MACHINE LEARNING AND AI TECHNIQUES
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	senanipindia@gmail.com
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View Documents

Filed → Published → RQ Filed → Under Examination → Disposed

In case of any discrepancy in status, kindly contact ipo-helpdesk@nic.in

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(61) Patent of Addition to Application Number Filing Date	:NA :NA
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(71)**Name of Applicant :**

1)Dr. VIVEK SHARMA

Address of Applicant :ASSISTANT PROFESSOR, FACULTY OF COMMERCE & BUSINESS STUDIES, MOTHERHOOD UNIVERSITY, ROORKEE, UTTARAKHAND- 247661 Roorkee ---------- ----------

2)Prof.(Dr.) P.K. AGARWAL

3)Dr. SHOAIB MOHAMMED

4)Dr. KANNAN VELLINGIRI

5)Dr.C.GNANLIN SHINY

6)Dr. SACHIN ANTON PALANDE

7)Dr.S.JAYAKANI

8)S.VENNILA FATHIMA RANI

9)Dr. LILA SIMON

10)Dr. S. SALEEM

11)Dr.M.NITHYA

Name of Applicant : NA

Address of Applicant : NA

(72)**Name of Inventor :**

1)Dr. VIVEK SHARMA

Address of Applicant :ASSISTANT PROFESSOR, FACULTY OF COMMERCE & BUSINESS STUDIES, MOTHERHOOD UNIVERSITY, ROORKEE, UTTARAKHAND- 247661 Roorkee ---------- ----------

2)Prof.(Dr.) P.K. AGARWAL

Address of Applicant :DEAN, FACULTY OF COMMERCE & BUSINESS STUDIES, MOTHERHOOD UNIVERSITY, ROORKEE, UTTARAKHAND-247661 Roorkee ---------- ----------

3)Dr. SHOAIB MOHAMMED

Address of Applicant :ASSISTANT PROFESSOR, SCHOOL OF MANAGEMENT AND ENTREPRENEURSHIP, ATLAS SKILL TECH UNIVERSITY, MUMBAI, MAHARASHTRA- 400070, INDIA Mumbai ---------- ----------

4)Dr. KANNAN VELLINGIRI

Address of Applicant :CLDC RESEARCH AND DEVELOPMENT, NO.997, METTUPALAYAM ROAD, NEAR X-CUT SIGNAL, R.S.PURAM, COIMBATORE, TAMIL NADU -641002. INDIA (BHARAT) Coimbatore ---------- ----------

5)Dr.C.GNANLIN SHINY

Address of Applicant :ASSISTANT PROFESSOR, COMMERCE, VOORHEES COLLEGE, VELLORE, TAMILNADU, 632001, INDIA Vellore ---------- ----------

6)Dr. SACHIN ANTON PALANDE

Address of Applicant :ASSOCIATE PROFESSOR, COMMERCE , AGASTI ARTS COMMERCE AND DADASAHEB RUPWATE SCIENCE COLLEGE AKOLE TEHSIL AKOLE DISTRICT AHMEDNAGAR MAHARASHTRA STATE INDIA PINCODE 422601 Ahmednagar ---------- ----------

7)Dr.S.JAYAKANI

Address of Applicant :ASSOCIATE PROFESSOR , COMMERCE, VELS INSTITUTE OF SCIENCE, TECHNOLOGY AND ADVANCED STUDIES, CHENNAI, TAMILNADU - 600117, INDIA Chennai ---------- ----------

8)S.VENNILA FATHIMA RANI

Address of Applicant :ASSOCIATE PROFESSOR , COMMERCE, VELS INSTITUTE OF SCIENCE ,TECHNOLOGY AND ADVANCED STUDIES , CHENNAI , TAMIL NADU -600117, INDIA Chennai ---------- ----------

9)Dr. LILA SIMON

Address of Applicant :PROFESSOR, MANAGEMENT, THE BHOPAL SCHOOL OF SOCIAL SCIENCES, BHEL,HABIBGANJ P.O , BHOPAL, MADHYA PRADESH- 462024, INDIA Bhopal ---------- ----------

10)Dr. S. SALEEM

Address of Applicant :ASSISTANT PROFESSOR , PG & RESEARCH DEPARTMENT OF COMMERCE, JAMAL MOHAMED COLLEGE (AUTONOMOUS) , (AFFILIATED TO BHARATHIDASAN UNIVERSITY), TIRUCHIRAPPALLI, TAMIL NADU- 620 020, INDIA Tiruchirappalli ---------- ----------

11)Dr.M.NITHYA

Address of Applicant :ASSISTANT PROFESSOR , COMMERCE, DR.SNS RAJALAKSHMI COLLEGE OF ARTS AND SCIENCES , COIMBATORE , TAMILNADU- 641049, INDIA Coimbatore ---------- ----------

(57) Abstract :

ABSTRACT Technology plays a crucial role in modern commerce, especially in maximizing profit. With the rise of online platforms and digital marketplaces, businesses can reach a larger audience and increase their sales. Technology has also made it easier for businesses to track their inventory and analyze their sales data, allowing them to make informed decisions to improve their profit margins. Moreover, technology has streamlined business operations, reducing costs and increasing efficiency. For example, automated systems can handle tasks such as inventory management, accounting, and customer service, freeing up valuable time for employees to focus on revenue-generating activities. One of the most significant impacts of technology on maximizing profit is through data analysis and targeted marketing. By collecting and analyzing customer data, businesses can better understand their target market and tailor their marketing strategies accordingly. This approach leads to higher conversion rates and increased profits. Additionally, technology has opened up new opportunities for businesses to diversify their product offerings and expand their market reach. With e-commerce platforms, businesses can sell their products globally, tapping into new markets and increasing their potential for profit. In conclusion, technology is a crucial factor in maximizing profit for modern commerce. It allows businesses to reach a wider audience, streamline operations, gain valuable insights from data analysis, and expand their market reach. Embracing technology is essential for businesses to stay competitive and achieve maximum profitability in today's fast-paced and digitally-driven commercial landscape.

No. of Pages : 12 No. of Claims : 7

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CBR Detail:

Sr. No.	App. Number	Ref. No./Application No.	Amount Paid	C.B.R. No.	Form Name	Remarks
1	202441072281	TEMP/E-1/84604/2024-CHE	1600	58760	FORM 1	Herbal Transdermal Patch for Acute Bronchitis Management

TransactionID	Payment Mode	Challan Identification Number	Amount Paid	Head of A/C No
N-0001506903	Online Bank Transfer	2509240001566	1600.00	1475001020000001

Total Amount : ₹ 1600.00
Amount in Words: Rupees One Thousand Six Hundred Only

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(21) Application No.202421015516 A
(43) Publication Date : 22/03/2024

(54) Title of the invention : ANALYSIS OF INTEGRATED MARKETING PROGRAMS OF DIGITAL CHANNELS

(51) International classification :G06Q0030020000, G06Q0010060000, G06Q0050000000, H04N0021434000, G06N0020000000
(86) International Application No :NA
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(71)**Name of Applicant :**
1)Dr. SANJAY PANDEY
Address of Applicant :PROFESSOR , MANAGEMENT STUDIES, GURU GHASIDAS VISHWAVIDYALAYA (A CENTRAL UNIVERSITY)BILASPUR, CHATTISGARH(CG)495009 Bilaspur ---------- ----------
2)Dr.N.BALACHANDRAN
3)Dr. B.B. PANDEY
4)Dr.M.THAIYALNAYAKI
5)Dr.V.ANDAL
6)Mr.J LOGESHWARAN
7)Mrs.M.VIVEKA
8)Prof(Dr.) AMIT SINGH RATHORE
9)Mr. AMIT STIEVE HENRY
10)Mr.SUBHASH CHAWLA
11)Dr. RATNESH KUMAR
12)Mrs. PRAGATI BANWAR
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)Dr. SANJAY PANDEY
Address of Applicant :PROFESSOR , MANAGEMENT STUDIES, GURU GHASIDAS VISHWAVIDYALAYA (A CENTRAL UNIVERSITY)BILASPUR, CHATTISGARH(CG)495009 Bilaspur ---------- ----------
2)Dr.N.BALACHANDRAN
Address of Applicant :FACULTY, DEPARTMENT OF MANAGEMENT STUDIES (MBA), VELALAR COLLEGE OF ENGINEERING AND TECHNOLOGY (AUTONOMOUS), ERODE, TAMILNADU-638012, INDIA Erode ---------- ----------
3)Dr. B.B. PANDEY
Address of Applicant :ASSOCIATE PROFESSOR, MANAGEMENT STUDIES, GURU GHASIDAS VISHWAVIDYALAYA (A CENTRAL UNIVERSITY)BILASPUR, CHATTISGARH(CG) 495009 Bilaspur ---------- ----------
4)Dr.M.THAIYALNAYAKI
Address of Applicant :PROFESSOR , COMMERCE , VELS INSTITUTE OF SCIENCE TECHNOLOGY AND ADVANCED STUDIES , CHENNAI, TAMILNADU , 600117 INDIA - Chennai ---------- ----------
5)Dr.V.ANDAL
Address of Applicant :ASSOCIATE PROFESSOR , B.COM (ACCOUNTS AND FINANCE), VELS INSTITUTE OF SCIENCE TECHNOLOGY AND ADVANCED STUDIES , CHENNAI, TAMILNADU - 600043, INDIA Chennai ---------- ----------
6)Mr.J LOGESHWARAN
Address of Applicant :RESEARCH SCHOLAR, DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, SRI ESHWAR COLLEGE OF ENGINEERING, COIMBATORE-TAMIL NADU Coimbatore ---------- ----------
7)Mrs.M.VIVEKA
Address of Applicant :ASSISTANT PROFESSOR, COMMERCE IT, DR. SNS RAJALAKSHMI COLLEGE OF ARTS AND SCIENCE, COIMBATORE- 641049 ,TAMILNADU., INDIA Coimbatore ---------- ----------
8)Prof(Dr.) AMIT SINGH RATHORE
Address of Applicant :DIRECTOR AND PROFESSOR, MANAGEMENT, OM KOTHARI INSTITUTE OF MANAGEMENT AND RESEARCH, KOTA, RAJASTHAN- 324005, INDIA, Kota ---------- ----------
9)Mr. AMIT STIEVE HENRY
Address of Applicant :ASSISTANT PROFESSOR & HEAD, MANAGEMENT CHOUKSEY ENGINEERING COLLEGE BILASPUR, CHHATTISGARH (CG)495004 Bilaspur ---------- ----------
10)Mr.SUBHASH CHAWLA
Address of Applicant :ASSISTANT PROFESSOR, MANAGEMENT, CHOUKSEY ENGINEERING COLLEGE BILASPUR, CHHATTISGARH (CG) 495004 Bilaspur ---------- ----------
11)Dr. RATNESH KUMAR
Address of Applicant :PRINCIPAL, MANAGEMENT, TAGORE COLLEGE OF MANAGEMENT, BILASPUR CHATTISGARH 495003 Bilaspur ---------- ----------
12)Mrs. PRAGATI BANWAR
Address of Applicant :ASSISTANT PROFESSOR, MANAGEMENT,TAGORE COLLEGE OF MANAGEMENT, BILASPUR CHATTISGARH 495003 Bilaspur ---------- ----------

(57) Abstract :
ABSTRACT ANALYSIS OF INTEGRATED MARKETING PROGRAMS OF DIGITAL CHANNELS The integration of digital channels in marketing programs has become a critical aspect for businesses to effectively reach and engage customers. By combining various digital channels, such as social media, email, search engines, and online advertising, companies can create a comprehensive and cohesive marketing strategy. However, the success of an integrated marketing program relies heavily on the analysis of data from these digital channels. The analysis of integrated marketing programs of digital channels involves the collection, measurement, and interpretation of data from multiple sources. This data can include website traffic, click-through rates, conversions, engagement metrics, and customer feedback. Through this analysis, businesses can gain insights into the effectiveness of their marketing efforts and make data-driven decisions to optimize their strategies. One of the major benefits of analyzing integrated marketing programs of digital channels is the ability to track and measure the customer journey. By monitoring the different touchpoints a customer has with a business, marketers can better understand their behavior and preferences. This information can then be used to tailor marketing efforts and create personalized experiences for customers, leading to increased conversions and customer loyalty. Moreover, analyzing data from digital channels can also help identify the most impactful channels and allocate resources accordingly. For instance, if a majority of conversions are coming from social media, a business can allocate more budget towards social media advertising. This not only helps maximize the ROI of each channel but also ensures a more efficient use of resources. In addition, the analysis of integrated marketing programs can also reveal key insights into the target audience. By understanding their demographics, interests, and behaviors, businesses can create more targeted and relevant messaging. This can lead to improved engagement and conversions, as customers are more likely to respond to messages that resonate with their needs and interests. Furthermore, data analysis also allows for the identification of gaps and opportunities in the marketing strategy. By identifying areas of improvement, businesses can continuously refine their marketing tactics and achieve better results. Overall, the analysis of integrated marketing programs of digital channels is crucial for businesses to stay competitive in today's digital landscape. It allows for a deeper understanding of customers, optimization of marketing efforts, and ultimately, drives business growth.

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(54) Title of the invention : ANALYZING THE IMPACT ON THE TRANSMISSION MEDIUM BY BROADCAST PACKETS

(51) International classification :H04L0041069000, H04W0016100000, H04L0041000000, H04N0007080000, H04W0004060000

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(87) International Publication No : NA

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Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)Dr. Anuradha Pawar
Address of Applicant :Assistant Professor, Department of Electronics and Communication Engineering, MIT Academy of Engineering, Alandi, Pune, Maharashtra - 412 105 ---------- ----------
2)Dr. Varsha Bodade
3)Mrs. S. Rajalakshmi
4)Mrs. Logeswari N.
5)Dr. B. Meenakshi
6)Dr. A.Vidhya
7)Dr. Anuradha. T
8)Dr. Vignesh V.
9)Dr. Panem Charanarur
10)Dr. K. Naresh Kumar Thapa
11)Mrs. R. Adline Freeda
12)Dr. Jose Anand A.
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)Dr. Anuradha Pawar
Address of Applicant :Assistant Professor, Department of Electronics and Communication Engineering, MIT Academy of Engineering, Alandi, Pune, Maharashtra - 412 105 ---------- ----------
2)Dr. Varsha Bodade
Address of Applicant :Professor, Department of Information Technology, Terna Engineering College, Nerul, Navi Mumbai, Maharashtra - 400706 ---------- ----------
3)Mrs. S. Rajalakshmi
Address of Applicant :Associate Professor, Department of ECE, Sri Sairam Engineering College, Chennai, Tamil Nadu - 600044 ---------- ----------
4)Mrs. Logeswari N.
Address of Applicant :Assistant Professor, Department of ECE, Sri Sairam Engineering College, Chennai, Tamil Nadu - 600044 ---------- ----------
5)Dr. B. Meenakshi
Address of Applicant :Professor, Department of EEE, Sri Sairam Engineering College, West Tambaram, Chennai, Tamilnadu - 600044 ---------- ----------
6)Dr. A.Vidhya
Address of Applicant :Assistant Professor, Department of Information Technology, School of Computing Sciences, Vels Institute of Science, Technology and Advanced Studies (VISTAS), Chennai, Tamil Nadu - 600117 ---------- ----------
7)Dr. Anuradha. T
Address of Applicant :Professor, Department of Electrical and Electronics Engineering, KCG College of Technology Chennai, Tamil Nadu, India – 600097 ---------- ----------
8)Dr. Vignesh V.
Address of Applicant :Associate Professor, Department of Computer Science and Engineering, Karpagam College of Engineering, Coimbatore – 641032 ---------- ----------
9)Dr. Panem Charanarur
Address of Applicant :Assistant Professor, Department of Cyber Security and Digital Forensics, National Forensic Sciences University, Tripura Campus, Agartala, Tripura – 799006 ---------- ----------
10)Dr. K. Naresh Kumar Thapa
Address of Applicant :Assistant Professor, Department of ECE, Sathyabama Institute of Science and Technology, Chennai, Tamilnadu - 600119 ---------- ----------
11)Mrs. R. Adline Freeda
Address of Applicant :AP Sel. Grade, Department of IT, KCG College of Technology, Karapakkam, Chennai, Tamil Nadu – 600097 ---------- ----------
12)Dr. Jose Anand A.
Address of Applicant :Professor, Department of ECE, KCG College of Technology, Karapakkam, Chennai, Tamil Nadu – 600097 ---------- ----------

(57) Abstract :
The expansion of wireless networks is a global phenomenon, driven by its simplicity and affordability. The proliferation of access points in public areas is evidence of this trend. However, this rapid growth poses challenges for network management, particularly regarding the impact of broadcast packets on the transmission medium. Broadcast packets, due to their nature, exert significant pressure on the network infrastructure. This study focuses on analyzing the effects of broadcast packets within a densely populated wireless network, particularly their impact on the transmission medium. The research was conducted within an academic network environment. The findings indicate that while broadcast packets are essential for network functionality, they also account for the majority of the transmission medium's occupation time. Accompanied Drawing [FIG. 1] [FIG. 2] [FIG. 3] [FIG. 4] [FIG. 5]

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(22) Date of filing of Application :21/05/2024

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(54) Title of the invention : DYNAMIC PRICING OPTIMIZATION SYSTEM FOR E-COMMERCE PLATFORMS

(51) International classification	:G06Q0030020000, G06Q0030060000, G06Q0010040000, G06Q0010060000, G06Q0050160000
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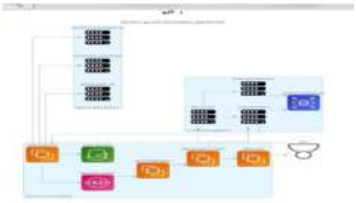
(71)**Name of Applicant :**
1)Dr. Poonam Kakkad
Address of Applicant :Vice - Principal, Department of Commerce, Nirmala Memorial Foundation College of Commerce and Science, D S Road, Ashah Nagar, Thakur Complex, Kandivali (East) Mumbai, Pincode- 400101, Maharashtra, India ---------- ----------
2)Dr. Priyanka Salgotra
3)Dr. Lakshmi P
4)Dr. Sonu Kumar
5)Dr. Ankita Tiwari
6)Vijitha S
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)Dr. Poonam Kakkad
Address of Applicant :Vice - Principal, Department of Commerce, Nirmala Memorial Foundation College of Commerce and Science, D S Road, Ashah Nagar, Thakur Complex, Kandivali (East) Mumbai, Pincode- 400101, Maharashtra, India ---------- ----------
2)Dr. Priyanka Salgotra
Address of Applicant :Professor, M. M. Institute of Management, Maharishi Markandeshwar Deemed to be University, Ambala, Pincode 133203, Haryana, India ---------- ----------
3)Dr. Lakshmi P
Address of Applicant :Associate Professor, Department of Business Administration, Vidyvardhaka College of Engineering (VVCE), Mysuru, Karnataka 570002, India ---------- ----------
4)Dr. Sonu Kumar
Address of Applicant :Assistant Professor, Department of Electronics and Communication Engineering, K.S.R.M. College of Engineering, Kadapa, Andhra Pradesh-516005, India ---------- ----------
5)Dr. Ankita Tiwari
Address of Applicant :Assistant Professor, Department of Mathematics, Koneru Lakshmaiah Education Foundation, Grrenfields Vaddeswaram, Pincode-522302, Guntur, Andhra Pradesh, India ---------- ----------
6)Vijitha S
Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, Vels Institute of Science Technology and Advanced Studies, Pallavaram, Chennai, Tamil Nadu-600043, India ---------- ----------

(57) Abstract :
The Dynamic Pricing Optimization System for E-commerce Platforms is a groundbreaking solution designed to revolutionize pricing strategies in the online retail sector. This system leverages real-time data collection, advanced analytics, and dynamic pricing algorithms to autonomously adjust prices for products or services listed on e-commerce platforms. By analyzing factors such as market trends, competitor pricing, and customer behavior, the system optimizes prices in real-time to maximize revenue and maintain competitiveness. Additionally, the system provides a user-friendly interface for administrators to set pricing rules, define constraints, and monitor performance metrics. With its adaptability, scalability, and seamless integration capabilities, the Dynamic Pricing Optimization System empowers e-commerce businesses to thrive in today's dynamic digital marketplace. Accompanied Drawing [FIGS. 1-2]



No. of Pages : 19 No. of Claims : 7

FORM 2

THE PATENTS ACT, 1970

(39 OF 1970)

AND

THE PATENT RULES, 2003

COMPLETE SPECIFICATION

(See section 10 and rule 13)

Title of Invention:

"ANALYSING THE ECO EFFICIENCY OF PEROVSKITE SOLAR CELLS FEATURING CARBON ELECTRODES USING LIFE CYCLE APPROACH"

NAME OF APPLICANT	NATIONALITY	ADDRESS
CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY	INDIA	CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY, NADIAD-PETLAD RD, CHANGA, GUJARAT-388421
DR. JAIDEV KUMAR	INDIAN	ASSISTANT PROFESSOR, DEPARTMENT OF CHEMISTRY, HARIOM SARASWATI P. G. COLLEGE DHANAURI, HARIDWAR, UTTARAKHAND
DR. PRIYA SINGH	INDIAN	ASSISTANT PROFESSOR, DEPARTMENT OF PHYSICS, MEDI-CAPS UNIVERSITY, RAU, PIGDAMBER, INDORE, 453331
DR.K.P. JAYANTHI	INDIAN	ASSISTANT PROFESSOR &HEAD, DEPARTMENT OF CHEMISTRY, SRI SANKARA ARTS AND SCIENCE COLLEGE, KANCHIPURAM, 631 561
DR. VANDANA KAUSHIK	INDIAN	ASSOCIATE PROFESSOR, DEPARTMENT OF PHYSICS, SANSKARAM UNIVERSITY, JHAJJAR, 124108

DR. ALOKE VERMA	INDIAN	HOD, DEPARTMENT OF PHYSICS, KALINGA UNIVERSITY, NAYA RAIPUR (CG) 492101
R UMAMAHESWARA SINGH	INDIAN	ASSOCIATE PROFESSOR, DEPARTMENT OF H&S, HYDERABAD INSTITUTE OF TECHNOLOGY AND MANAGEMENT, MEDCHAL - MALKAJGIRI-501401
DR. PRASHANT MUNDEJA	INDIAN	PROFESSOR, SCHOOL OF SCIENCES, MATS UNIVERSITY, RAIPUR 492002
RAJEEV RANJAN	INDIAN	ASSISTANT PROFESSOR, UNIVERSITY DEPARTMENT OF CHEMISTRY, DSPM UNIVERSITY, RANCHI 834008
DR. K. PARIMALA GANDHI	INDIAN	PROFESSOR, DEPARTMENT OF SCIENCE AND HUMANITIES, NEHRU INSTITUTE OF TECHNOLOGY, COIMBATORE-641105
S. JACQULIN VEDA JANCY	INDIAN	ASSISTANT PROFESSOR, DEPARTMENT OF CCE, SRI SAI RAM INSTITUTE OF TECHNOLOGY, CHENNAI-600044
UDAYAKUMAR N	INDIAN	ASSISTANT PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, VELS INSTITUTE OF SCIENCE TECNOLOGY AND ADVANCED STUDIES, PALLAVARAM, CHENNAI, 600117

The following specification describes the invention and the manner in which it is to be performed.

FIELD OF INVENTION

The present invention relates to the field of designing and implementing a framework of life cycle approach to analyse eco-efficiency of perovskite solar cells featuring carbon electrodes. The proposed invention focuses on understanding the life cycle of perovskite solar cells for analysing their efficiency.

BACKGROUND OF INVENTION

[0001] Background description includes information that may be useful in understanding the present invention. It is not an admission that any of the information provided herein is prior art or relevant to the presently claimed invention, or that any publication specifically or implicitly referenced is prior art.

[0002] A life cycle approach is a way of thinking that considers the effects of all stages of a product or service's life cycle. This approach can help people recognize how their choices are part of a larger, interconnected system. The stages of a product or service's life cycle can include raw material extraction, design, production, distribution, use, recovery, and disposal. A life cycle approach can help identify both the opportunities and risks of a product or technology.

[0003] A number of different types of perovskite solar cells analysis systems that are known in the prior art. For example, the following patents are provided for their supportive teachings and are all

incorporated by reference.

[0004] A patent landscape analysis for organic photovoltaic solar cells: Identifying the technology's development phase: Organic photovoltaics (OPV) have developed into a vast research area. Progress in various directions has made it difficult to monitor the technology's precise development state. We offer a patent landscape analysis over all OPV devices, their substrates and encapsulation materials to provide an overview of patenting activity from a historical, organizational, geographical and technological point of view. Such an exercise is instrumental for private companies and research institutes aiming at both internal or external technology creation. We discuss our findings in the context of the Industrial Life Cycle model and find OPV still residing in the fluid technology development phase. Technology development is still following an exponential growth path, with the majority of patents coming from the Asian continent and in general private companies. For devices, the main technological focus can be traced back to the "H01L-031" international patent classification (IPC) main group. For the queried substrates, the most attention has gone to glass, but paper and textile have drawn significant interest too. Finally, encapsulation is found to be a less mature research field given the smaller number of patent families. The latter shows that the technology has not matured to the level where processing is carried out on a commercial scale.

[0005] An electrode is an electrical conductor used to contact a non-metallic part of a circuit (e.g. a semiconductor, an electrolyte, a vacuum or air). Electrodes are essential parts of batteries that can consist of a variety of materials depending on the type of battery. The electrophori, invented by Johan Wilcke, was an early version of an electrode used to study static electricity. The proposed invention focuses on analyzing the eco-efficiency of perovskite solar cells featuring carbon electrodes through algorithms of life cycle approach.

[0006] Above information is presented as background information only to assist with an understanding of the present disclosure. No determination has been made, no assertion is made, and as to whether any of the above might be applicable as prior art with regard to the present invention.

[0007] In the view of the foregoing disadvantages inherent in the known types of perovskite solar cells analysis systems now present in the prior art, the present invention provides an improved system. As such, the general purpose of the present invention, which will be described subsequently in greater detail, is to provide a new and improved framework of life cycle approach to analyse eco-efficiency of perovskite solar cells featuring carbon electrodes that has all the advantages of the prior art and none of the disadvantages.

SUMMARY OF INVENTION

[0008] In the view of the foregoing disadvantages inherent in the known types of perovskite solar cells analysis systems now present in the prior art, the present invention provides an improved one. As such, the general purpose of the present invention, which will be described subsequently in greater detail, is to provide a new and improved framework of life cycle approach to analyse eco-efficiency of perovskite solar cells featuring carbon electrodes which has all the advantages of the prior art and none of the disadvantages.

[0009] The main objective of the proposed invention is to design & implement a framework of life cycle approach for analyzing the eco-efficiency of perovskite solar cells featuring carbon electrodes. Eco-efficiency of perovskite solar cells is analyzed.

[0010] Yet another important aspect of the proposed invention relates to the field of designing & implementing techniques that will consider on understanding the life cycle of perovskite solar cells for analysing their efficiency. Eco-efficiency of perovskite solar cells is analyzed by predictive unit. The results of prediction are displayed on the display unit.

[0011] In this respect, before explaining at least one embodiment of the invention in detail, it is to be understood that the invention is not limited in its application to the details of construction and to the arrangements of

the components set forth in the following description or illustrated in the various ways. Also, it is to be understood that the phraseology and terminology employed herein are for the purpose of description and should not be regarded as limiting.

[0012] These together with other objects of the invention, along with the various features of novelty which characterize the invention, are pointed out with particularity in the disclosure. For a better understanding of the invention, its operating advantages and the specific objects attained by its uses, reference should be had to the accompanying drawings and descriptive matter in which there are illustrated preferred embodiments of the invention.

BRIEF DESCRIPTION OF DRAWINGS

[0013] The invention will be better understood and objects other than those set forth above will become apparent when consideration is given to the following detailed description thereof. Such description makes reference to the annexed drawings wherein:

Figure 1 illustrates the schematic view of analyzing the eco efficiency of perovskite solar cells featuring carbon electrodes using life cycle approach, according to the embodiment herein.

DETAILED DESCRIPTION OF INVENTION

[0014] In the following detailed description, reference is made to the accompanying drawings which form a part hereof, and in which is

shown by way of illustration specific embodiments in which the invention may be practiced. These embodiments are described in sufficient detail to enable those skilled in the art to practice the invention, and it is to be understood that the embodiments may be combined, or that other embodiments may be utilized and that structural and logical changes may be made without departing from the spirit and scope of the present invention. The following detailed description is, therefore, not to be taken in a limiting sense, and the scope of the present invention is defined by the appended claims and their equivalents.

[0015] While the present invention is described herein by way of example using several embodiments and illustrative drawings, those skilled in the art will recognize that the invention is neither intended to be limited to the embodiments of drawing or drawings described, nor intended to represent the scale of the various components. Further, some components that may form a part of the invention may not be illustrated in certain figures, for ease of illustration, and such omissions do not limit the embodiments outlined in any way. It should be understood that the drawings and detailed description thereto are not intended to limit the invention to the particular form disclosed, but on the contrary, the invention covers all modification/s, equivalents and alternatives falling within the spirit and scope of the present invention as defined by the appended claims. The headings are used for organizational purposes only

and are not meant to limit the scope of the description or the claims. As used throughout this description, the word "may" be used in a permissive sense (i.e., meaning having the potential to), rather than the mandatory sense (i.e., meaning must). Further, the words "a" or "a" mean "at least one" and the word "plurality" means one or more, unless otherwise mentioned. Furthermore, the terminology and phraseology used herein is solely used for descriptive purposes and should not be construed as limiting in scope. Language such as "including," "comprising," "having," "containing," or "involving," and variations thereof, is intended to be broad and encompass the subject matter listed thereafter, equivalents, and any additional subject matter not recited, and is not intended to exclude any other additives, components, integers or steps. Likewise, the term "comprising" is considered synonymous with the terms "including" or "containing" for applicable legal purposes. Any discussion of documents, acts, materials, devices, articles and the like are included in the specification solely for the purpose of providing a context for the present invention.

[0016] In this disclosure, whenever an element or a group of elements is preceded with the transitional phrase "comprising", it is understood that we also contemplate the same element or group of elements with transitional phrases "consisting essentially of, "consisting", "selected from the group consisting of", "including", or "is" preceding the

recitation of the element or group of elements and vice versa.

[0017] Perovskite solar cells (PSCs) are a type of thin-film photovoltaic (PV) device that can convert sunlight into electrical energy. They are made up of layers of semiconducting materials that are either printed or coated from liquid inks or vacuum-deposited. The active layer of the cell is usually a perovskite-structured compound, such as a hybrid organic–inorganic lead or tin halide-based material.

[0018] Carbon electrodes are conductive materials made from anthracite and metallurgical coke, and sometimes natural graphite. They are used in applications that require electron transfer, such as electrochemical experiments and analysis, and are commonly used during electrolysis. Carbon electrodes are also used in submerged arc furnaces for silicon production and smelting metal alloys. The proposed invention focuses on implementing techniques for studying the life cycle of perovskite solar cells for analysing their efficiency.

[0019] Reference will now be made in detail to the exemplary embodiment of the present disclosure. Before describing the detailed embodiments that are in accordance with the present disclosure, it should be observed that the embodiment resides primarily in combinations arrangement of the system according to an embodiment herein and as exemplified in FIG. 1

[0020] Figure 1 illustrates the schematic view of analyzing the eco

efficiency of perovskite solar cells featuring carbon electrodes using life cycle approach 100. The proposed invention 100 considers carbon electrodes 101 and perovskite solar cells 102 which is analysed using the analysis unit 103. The data from the analysis unit 103 is fed into the database 104. The data from the database 104 is sent to the machine learning unit 105 which runs the predictive algorithm 106. The predictive algorithm 106 will display the results on the display unit 107.

[0021] In the following description, for the purpose of explanation, numerous specific details are set forth in order to provide a thorough understanding of the arrangement of the system according to an embodiment herein. It will be apparent, however, to one skilled in the art that the present embodiment can be practiced without these specific details. In other instances, structures are shown in block diagram form only in order to avoid obscuring the present invention.

Gowthami S

Patent Agent

INPA 3797

On behalf of Applicant

Digitally Signed

Date: 20/06/2024

WE CLAIM

1. Analysing the eco efficiency of perovskite solar cells featuring carbon electrodes using life cycle approach, comprises of:

   Machine learning unit;

   Display unit and

   Predictive unit.

2. Analysing the eco efficiency of perovskite solar cells featuring carbon electrodes using life cycle approach, according to claim 1, includes a machine learning unit, wherein the machine learning unit will run the predictive unit.

3. Analysing the eco efficiency of perovskite solar cells featuring carbon electrodes using life cycle approach, according to claim 1, includes a display unit, wherein the display unit will display the results of predictive unit.

4. Analysing the eco efficiency of perovskite solar cells featuring carbon electrodes using life cycle approach, according to claim 1, includes a predictive unit, wherein the predictive unit will predict the solar cell featuring carbon electrodes using life cycle approach.

Gowthami S

Patent Agent

INPA 3797

On behalf of Applicant

Digitally Signed

Date: 20/06/2024

ABSTRACT

ANALYSING THE ECO EFFICIENCY OF PEROVSKITE SOLAR CELLS FEATURING CARBON ELECTRODES USING LIFE CYCLE APPROACH

Analysing the eco efficiency of perovskite solar cells featuring carbon electrodes using life cycle approach is the proposed invention. The proposed invention focuses on understanding the life cycle of perovskite solar cells for analysing their efficiency. The invention focuses on analyzing the eco-efficiency of perovskite solar cells featuring carbon electrodes using algorithms of life cycle approach.

Gowthami S

Patent Agent

INPA 3797

On behalf of Applicant

Digitally Signed

Date: 20/06/2024

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Department for Promotion of Industry and Internal Trade
Ministry of Commerce & Industry,
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APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	23/07/2024
APPLICANT NAME	1 . Dr. Swadha Bhartia 2 . Dr. Anil Sehrawat 3 . Dr. G. Amutha 4 . Dr. Angel Ruth Shalom Banerjee 5 . Dr. Neerja Garg 6 . Arumita Pawa 7 . Sneha S 8 . Dr. Annapoorani R 9 . Dr. Gajanethi Swathi Kumari 10 . Dr. M. Vetrivel
TITLE OF INVENTION	THE IMPACT OF MENTAL HEALTH ON SELF-EFFICACY, ACADEMIC PERFORMANCE AND CAREER DECISIONS
FIELD OF INVENTION	PHYSICS

E-MAIL (As Per Record)	patentpublucation@gmail.com
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Department for Promotion of Industry and Internal Trade
Ministry of Commerce & Industry,
Government of India

Application Details	
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APPLICANT NAME	**1 . S.Balamurugan 2 . Dr.T.Sree Kala 3 . Ms.K.Sreelatha 4 . Dr.K.Abirami 5 . Dr. D. Karthika 6 . Dr.Bharati Wukkadada 7 . Dr. Ramasamy V 8 . Dr.D.Kalaivani 9 . Mr.K.Dinesh 10 . Dr.A.Selvi 11 . C R Srinivasan 12 . Arockia Ranjithkumar M**
TITLE OF INVENTION	BIO-INSPIRED INTELLIGENT IMPLANT TO DETECT EARLY WARNING SIGNALS OF STROKE IN OLDER ADULTS USING DEEP LEARNING
FIELD OF INVENTION	COMPUTER SCIENCE

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APPLICANT NAME	1 . Dr. Jaisree Anand 2 . H.M. Moyeenudin 3 . Vijayakumar M 4 . Deepakraj V 5 . R John Williams 6 . Dr. Aruna V 7 . V.Vijayalakshmy 8 . Dr S. Asif Alisha 9 . Dr.Gajanethi Swathi Kumari 10 . Mrs. Gayathri A
TITLE OF INVENTION	STUDENT PERCEPTION OF THE UTILIZATION OF WHATSAPP IN BIOLOGICAL LEARNING
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	patenspublication@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
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Ministry of Commerce & Industry,
Government of India

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APPLICATION NUMBER	202421058868
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	04/08/2024
APPLICANT NAME	**1 . Dr. Sushil Beliya** **2 . Dr. Bindu Nandakumar Menon** **3 . Dr.Avula Vijayalakshmi** **4 . Ms. Seema E** **5 . Dr. V. Girija** **6 . Suram Syam Prasad** **7 . Dr. S. Poonguzhali** **8 . Dr.Ajita Singh Tiwari** **9 . Dr.Jitandera Kumar Singh** **10 . Dr.M. Devika** **11 . Dr.R. Arun**
TITLE OF INVENTION	THE ROLE OF REFLECTIVE PRACTICE IN ENHANCING

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(19) INDIA
(22) Date of filing of Application :08/01/2024
(21) Application No.202441001482 A
(43) Publication Date : 09/02/2024

(54) Title of the invention : FROM HERB TO HEALER: UNVEILING THE PHYTOCONSTITUENTS AND RADICAL SCAVENGING ACTIVITY OF LEMONGRASS

(51) International classification :A61K36/899, A61K8/97, A61K8/9794, B01D11/00, B01D11/02, C07H1/08, G01N30/02, G01N30/06
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(71)**Name of Applicant :**
1)Dr. Sayeeda Sultana
Address of Applicant :Professor and Head Department of Chemistry St. Peter's Institute of Higher Education and Research,Avadi, Chennai 600 054 Tamil Nadu, India ---------- ----------
2)Mr. C. Sakthivel
3)Dr. M. Priya
4)Dr. Gokul Raghavendra Srinivasan
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)Dr. Sayeeda Sultana
Address of Applicant :Professor and Head Department of Chemistry St. Peter's Institute of Higher Education and Research,Avadi, Chennai 600 054 Tamil Nadu, India ---------- ----------
2)Mr. C. Sakthivel
Address of Applicant :Assistant Professor Department of Chemistry St. Peter's Institute of Higher Education and Research,Avadi, Chennai 600 054 Tamil Nadu, India ---------- ----------
3)Dr. M. Priya
Address of Applicant :Assistant Professor School of Basic Science, Department of Chemistry Vels Institute of Science, Technology and Advanced Studies, Pallavaram, Chennai-600 117,India ---------- ----------
4)Dr. Gokul Raghavendra Srinivasan
Address of Applicant :Research Scientist and Technical Analyst Department of Research and Development Steamax Envirocare Private Limited, Vikaspuri Delhi-110018, India ---------- ----------

(57) Abstract :
ABSTRACT From Herb to Healer: Unveiling the Phytoconstituents and Radical Scavenging Activity of Lemongrass Lemongrass (Cymbopogon citratus) is a widely used culinary and medicinal herb with a long history of traditional use. Numerous studies have demonstrated its antioxidant, anti-inflammatory, and antimicrobial properties. However, the extraction, identification, and evaluation of the specific phytoconstituents responsible for these biological activities remain incompletely understood. The present invention addresses this gap by providing a comprehensive method for extracting, identifying, estimating, and evaluating the radical scavenging activity of phytoconstituents present in lemongrass (Cymbopogon citratus). The method involves Soxhlet extraction of lemongrass powder using water, followed by column chromatography to separate the phytoconstituents. The purified fractions are then analyzed using Thin Layer Chromatography (TLC) to identify the specific phytoconstituents. The presence of alkaloids, flavonoids, tannins, and phenolics is confirmed using standard chemical tests. Colorimetric methods are employed to estimate the concentrations of the identified phytoconstituents. The radical scavenging activity of the extracted phytoconstituents is assessed using the DPPH (2,2-diphenyl-1-picrylhydrazyl) assay. The ability of the extract to scavenge DPPH radicals is measured and compared to a standard antioxidant, such as ascorbic acid.

No. of Pages : 26 No. of Claims : 5

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(21) Application No.202441011231 A
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(54) Title of the invention : HR MANAGEMENT BASED COMPUTERIZED INFORMATION SYSTEM ANALYSIS

(51) International classification	:G06Q0010060000, G06Q0010100000, H04L0067010000, H04N0007180000, G01C0021200000
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(87) International Publication No	: NA
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(71)**Name of Applicant :**
1)Dr. S. Jayakani
Address of Applicant :Associate professor, Department of Commerce, Vels Institute of Science, Technology and Advanced Studies (VISTAS), Pallavaram, Chennai ———— ————
2)Dr. S. Vennila Fathima Rani
3)Dr. N. Sneha
4)Avick Kumar Dey
5)Shobhit Kumar
6)Dr. Ajith Subbiah
7)Himanshu
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)Dr. S. Jayakani
Address of Applicant :Associate professor, Department of Commerce, Vels Institute of Science, Technology and Advanced Studies (VISTAS), Pallavaram, Chennai ———— ————
2)Dr. S. Vennila Fathima Rani
Address of Applicant :Associate professor, Department of Commerce, Vels Institute of Science, Technology and Advanced Studies (VISTAS), Pallavaram, Chennai ———— ————
3)Dr. N. Sneha
Address of Applicant :Assistant Professor, Department of Professional Management Studies, Kristu Jayanti College (Autonomous), Kothanur, Bangalore ———— ————
4)Avick Kumar Dey
Address of Applicant :Assistant Professor & Head (Research & Development), Department of Computer Applications, Durgapur Society of Management Science (DSMS), West Bengal ———— ————
5)Shobhit Kumar
Address of Applicant :Assistant Professor, School of Business Management, IFTM University, Moradabad, Uttar Pradesh ———— ———— ——
6)Dr. Ajith Subbiah
Address of Applicant :Assistant Professor, Department of Mechanical Engineering, Stella Mary's College of Engineering, Anuthenganvillai, Tamil Nadu ———— ————
7)Himanshu
Address of Applicant :Assistant Professor, Chandigarh College of Hotel Management and Catering Technology, Punjab ———— ————

(57) Abstract :
A software program that keeps track of, handles, and processes comprehensive personnel data as well as policies and procedures pertaining to human resources is called an HR information system. The use of computerized information for strategic decision making, the variety of applications that should be included in the system, and giving facility line managers direct access to any personnel data they require to manage their own teams in a devolved organization are the three main areas of concern for an organization's HR strategy with regard to HR information. The strategic domains that are affected by computerized data and the insights derived from analysing it encompass broad issues related to the organization, such as staff development, organizational health, organizational requirements, and human resource usage.

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(43) Publication Date : 08/03/2024

(54) Title of the invention : COMPREHENSIVE REAL-TIME ECONOMIC DATA ANALYSIS AND VISUALIZATION PLATFORM FOR INFORMED DECISION-MAKING

(71)**Name of Applicant :**
1)Ms. K. Ranjitha
Address of Applicant :Assistant Professor, Department of Commerce, Giraj Government College (A), Nizamabad, Pin: 503002, Telangana, India. ————————
2)Smt. Tahseem Shaheen
3)Dr. Subha Rani. B

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(21) Application No.202441038700 A

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(54) Title of the invention : CUSTOMER RELATIONSHIP MANAGEMENT (CRM) PLATFORM WITH PERSONALIZED MARKETING AUTOMATION FOR E-COMMERCE BUSINESSES

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(71)**Name of Applicant :**
1)MARIYAPPANN
Address of Applicant :RESEARCH SCHOLAR, DEPARTMENT OF COMMERCE, FACULTY OF SCIENCE AND HUMANITIES, SRM INSTITUTE OF SCIENCE AND TECHNOLOGY, KATTANKULATHUR, TAMILNADU, INDIA. ———— ————
2)SANGEETHA G
3)K HARI
4)DR. CH SANDEEP
5)DR.R.V.SURESH
6)DR. S. VIJAYALAKSHMI
7)DR.T.SUJATHA
8)MS.R.SHARMILA
9)MS.E. DURGA DEVI
10)SHAHINAZ S
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)MARIYAPPANN
Address of Applicant :RESEARCH SCHOLAR, DEPARTMENT OF COMMERCE, FACULTY OF SCIENCE AND HUMANITIES, SRM INSTITUTE OF SCIENCE AND TECHNOLOGY, KATTANKULATHUR, TAMILNADU, INDIA. ———— ————
2)SANGEETHA G
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMMERCE, FACULTY OF SCIENCE AND HUMANITIES, SRM INSTITUTE OF SCIENCE AND TECHNOLOGY, KATTANKULATHUR, TAMILNADU, INDIA. ———— ————
3)K HARI
Address of Applicant :FULL TIME RESEARCH SCHOLAR, DEPARTMENT OF COMMERCE, FACULTY OF SCIENCE AND HUMANITIES, SRM INSTITUTE OF SCIENCE AND TECHNOLOGY, RAMAPURAM, CHENNAI, TAMILNADU, INDIA. ———— ————
4)DR. CH SANDEEP
Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF MECHANICAL ENGINEERING, INSTITUTE OF AERONAUTICAL ENGINEERING, DUNDIGAL, HYDERABAD-500043, TELANGANA, INDIA. ———— ————
5)DR.R.V.SURESH
Address of Applicant :ASSOCIATE PROFESSOR, GNANAM SCHOOL OF BUSINESS, TRICHY – THANJAVUR EXPRESSWAYS, SENGIPATTI, THANJAVUR – 613402, ———— ————
6)DR. S. VIJAYALAKSHMI
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMMERCE, FACULTY OF SCIENCE AND HUMANITIES, SRM INSTITUTE OF SCIENCE AND TECHNOLOGY, RAMAPURAM, CHENNAI, TAMILNADU, INDIA. ———— ————
7)DR.T.SUJATHA
Address of Applicant :ASSISTANT PROFESSOR, B.COM (ACCOUNTS AND FINANCE), VELS INSTITUTE OF SCIENCE, TECHNOLOGY AND ADVANCED STUDIES, PALLAVARAM, CHENNAI, TAMILNADU, INDIA. ———— ————
8)MS.R.SHARMILA
Address of Applicant :RESEARCH SCHOLAR, DEPARTMENT OF COMMERCE, FACULTY OF SCIENCE AND HUMANITIES, SRM INSTITUTE OF SCIENCE AND TECHNOLOGY, RAMAPURAM, CHENNAI, TAMILNADU, INDIA. ———— ————
9)MS.E. DURGA DEVI
Address of Applicant :RESEARCH SCHOLAR, DEPARTMENT OF COMMERCE, FACULTY OF SCIENCE AND HUMANITIES, SRM INSTITUTE OF SCIENCE AND TECHNOLOGY, RAMAPURAM, CHENNAI, TAMILNADU, INDIA. ———— ————
10)SHAHINAZ S
Address of Applicant :RESEARCH SCHOLAR, DEPARTMENT OF PHARMACY PRACTICE, SRM COLLEGE OF PHARMACY, SRM COLLEGE OF PHARMACY, SRM INSTITUTE OF SCIENCE AND TECHNOLOGY, KATTANKULATHUR, CHENNAI, TAMILNADU, INDIA. ———— ————

(57) Abstract :
The proposed Customer Relationship Management (CRM) platform with personalized marketing automation for e-commerce businesses integrates advanced data analytics, machine learning, and automation to enhance customer engagement, retention, and operational efficiency. The system offers comprehensive customer profiles, sophisticated segmentation, and AI-driven personalization for tailored marketing campaigns. It supports multi-channel marketing, including email, social media, SMS, and in-app messaging, and features robust marketing automation workflows. The platform includes tools for loyalty program management and efficient customer support, with advanced security measures to ensure data privacy and compliance with regulations. Detailed analytics and reporting provide actionable insights for data-driven decision-making. Designed for interoperability, it seamlessly integrates with existing e-commerce infrastructure, offering scalability and customizable features for businesses of all sizes.

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(71)**Name of Applicant :**
1)SARAVANAN KANDANERI RAMAMOORTHY
Address of Applicant :ACADEMIC HEAD, COLLEGE OF NON-MEDICINE PROGRAMS, TEXILA AMERICAN UNIVERSITY, GUYANA, SOUTH AMERICA. ---------- ----------
2)DR.C.AARTHI
3)DR.S.ARUN KUMAR
4)DR. S. MADHUBALAN
5)K N S K SANTHOSH
6)CHALLARAJ EMMANUEL E S
7)DR. S. SRIDEVI
8)J.RAMESHKUMAR
9)K SREEKANTH
10)DR. M. UDHAYAVANI
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)SARAVANAN KANDANERI RAMAMOORTHY
Address of Applicant :ACADEMIC HEAD, COLLEGE OF NON-MEDICINE PROGRAMS, TEXILA AMERICAN UNIVERSITY, GUYANA, SOUTH AMERICA. ---------- ----------
2)DR.C.AARTHI
Address of Applicant :PROFESSOR, DEPARTMENT OF ECE, SENGUNTHAR ENGINEERING COLLEGE, TIRUCHENGODE, TAMIL NADU, INDIA. ---------- ----------
3)DR.S.ARUN KUMAR
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING, SONA COLLEGE OF TECHNOLOGY, SALEM. – 636005, TAMIL NADU, INDIA. ---------- ----------
4)DR. S. MADHUBALAN
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF EEE, SONA COLLEGE OF TECHNOLOGY, SALEM. – 636005, TAMIL NADU, INDIA. ---------- ----------
5)K N S K SANTHOSH
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING (AIML), ADITYA UNIVERSITY,SURAMPALEM, ---------- ----------
6)CHALLARAJ EMMANUEL E S
Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF LIFE SCIENCES, KRISTU JAYANTI COLLEGE (AUTONOMOUS) K. NARAYANAPURA, KOTHANUR POST, BENGALURU-560077, KARNATAKA, INDIA. ---------- ----------
7)DR. S. SRIDEVI
Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF CSE, VELS INSTITUTE OF SCIENCE, TECHNOLOGY AND ADVANCED STUDIES (VISTAS), PALLAVARAM, CHENNAI, INDIA. ---------- ----------
8)J.RAMESHKUMAR
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF ECE, K.S.R. COLLEGE OF ENGINEERING, TIRUCHENGODE, NAMAKKAL, TAMIL NADU, INDIA. ---------- ----------
9)K SREEKANTH
Address of Applicant :DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, KONERU LAKSHMAIAH EDUCATION FOUNDATION, VADDESWARAM – 522502, ANDHRA PRADESH, INDIA. ---------- ----------
10)DR. M. UDHAYAVANI
Address of Applicant :PROFESSOR, DEPARTMENT OF ECE, PAAVAI ENGINEERING COLLEGE, NAMAKKAL, TAMIL NADU, INDIA. ---------- ----------

(57) Abstract :
The present invention relates to an IoT-based smart energy management system that leverages distributed ledger technology (DLT) to optimize energy consumption, enhance data security, and promote sustainable energy practices. This system comprises a network of IoT sensors and smart meters that monitor real-time energy usage across residential, commercial, and industrial settings. The DLT platform securely records energy consumption data, enabling transparency and facilitating peer-to-peer energy trading among users. Advanced analytics algorithms provide personalized recommendations for energy efficiency, while features such as demand response management and renewable energy integration empower users to actively participate in energy conservation efforts. The system enhances user engagement through an intuitive interface that offers insights into consumption patterns, alerts for unusual usage, and automated optimization based on user preferences and external conditions. By promoting decentralized energy managem

No. of Pages : 19 No. of Claims : 9

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Ministry of Commerce & Industry,
Government of India

सत्यमेव जयते

INTELLECTUAL PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

Application Details	
APPLICATION NUMBER	202441096219
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	05/12/2024
APPLICANT NAME	**1 . Dr. V. Bala Ruby** **2 . Dr. Christabell Joseph** **3 . K. Rajkamal** **4 . Dr. Jyoti Kulshreshtha** **5 . Dr. Kawerinder Singh Sidhu** **6 . Sachin K C**
TITLE OF INVENTION	The Impact of Leadership Styles on Employee Motivation and Performance
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	patentpublucation@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	13/12/2024

11:18 5G
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Government of India

सत्यमेव जयते

Application Details

APPLICATION NUMBER	202441099749
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	17/12/2024
APPLICANT NAME	**1 . Dr.S.Jayakani** **2 . Dr.S.Vennila Fathima Rani** **3 . Dr. S. Rafiya Banu** **4 . Dr.S.Uma** **5 . Farzana. S**
TITLE OF INVENTION	DESIGN FOR A SECURE FINANCIAL MANAGEMENT APP WITH A BLOCKCHAIN KEY INTERFACE
FIELD OF INVENTION	COMMUNICATION

Intellectual Property Office

Certificate of Registration for a UK Design

Design number: 6373123

Grant date: 28 June 2024

Registration date: 21 June 2024

This is to certify that,

in pursuance of and subject to the provision of Registered Designs Act 1949, the design of which a representation or specimen is attached, had been registered as of the date of registration shown above in the name of

Dr. SHEENA ANANDAKUMAR DAISY, Dr. JEYALAKSSHMI SUNDARAM, Mrs.

JAYASHREE SOUNDARARAJAN, Dr.YOGESHWARI MANOHARAN , Dr.

SANGEETHA RADAHAKRISHNAN

in respect of the application of such design to:

ARTIFICIAL INTELLIGENCE INTEGRATED AIR QUALITY MONITORING

DEVICE

International Design Classification:
Version: 14-2023
Class: 10 CLOCKS AND WATCHES AND OTHER MEASURING INSTRUMENTS, CHECKING AND SIGNALLING INSTRUMENTS
Subclass: 04 OTHER MEASURING INSTRUMENTS, APPARATUS AND DEVICES

Adam Williams

Adam Williams
Comptroller-General of Patents, Designs and Trade Marks
Intellectual Property Office
The attention of the Proprietor(s) is drawn to the important notes overleaf.

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Ministry of Commerce & Industry,
Government of India

Application Details	
APPLICATION NUMBER	202421080824
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	23/10/2024
APPLICANT NAME	1 . Dr. ROMAN MOTIRAM JANBANDHU 2 . Dr.V.MURUGALAKSHMI 3 . Dr.K.LATHA 4 . Dr. JENNIFER G JOSEPH 5 . Ms. REVATHE B 6 . Ms. DHANSHREE C 7 . Dr. K. VIJI 8 . Dr. K N UMA DEVI 9 . Dr. ANINDITA CHOWDHURY 10 . Dr. MARIA SAHAYA SHARMILA 11 . Ms. SRI VARSHNI M 12 . Mrs. T. JENIFER
TITLE OF INVENTION	A STUDY ON THE IMPACT OF TEACHER FEEDBACK ON LANGUAGE DEVELOPMENT

14:48 ✓ ✓ • Vo) LTE+ LTE2 86%

202441002774 1 of 1

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/01/2024

(21) Application No.202441002774 A
(43) Publication Date : 23/02/2024

(54) Title of the invention : E-WASTE MANAGEMENT SYSTEMS

(71)**Name of Applicant :**
1)Dr. R. Rajesh Kanna
Address of Applicant :Assistant Professor, Department of Economics, Vels Institute of Science Technology and Advanced Studies (VISTAS), Pallavaram, Chennai, Tamil Nadu, India
2)Y. Sujatha
3)Dr. S. Jasmeet
4)Dr. P. Vijayadeve
5)Dr. G.S. Dhanadeve
6)Dr. A. Metha Mounakshi
7)Dr. Mohana Priya. M
8)Dr. Arthvi. A
9)Dr. V. Suganthi
10)Dr. V. Kalai Selvan
11)Ruchita Damodar
12)Ganeshwar Singh Mankar
13)Hamsitha Challagandla
14)Pooja Khot
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)Dr. R. Rajesh Kanna
Address of Applicant :Assistant Professor, Department of Economics, Vels Institute of Science Technology and Advanced Studies (VISTAS), Pallavaram, Chennai, Tamil Nadu, India
2)Y. Sujatha
Address of Applicant :Ph.D. Research Scholar, Department of Mathematics, Vels Institute of Science Technology and Advanced Studies (VISTAS), Pallavaram, Chennai, Tamil Nadu, India
3)Dr. S. Jasmeet
Address of Applicant :Associate Professor, Department of Economics, Vels Institute of Science Technology and Advanced Studies (VISTAS), Pallavaram, Chennai, Tamil Nadu, India
4)Dr. P. Vijayadeve
Address of Applicant :Assistant Professor, Department of Commerce (General), Vels Institute of Science Technology and Advanced Studies (VISTAS), Pallavaram, Chennai, Tamil Nadu, India
5)Dr. G.S. Dhanadeve
Address of Applicant :Assistant Professor, Department of Commerce (General), Vels Institute of Science Technology and Advanced Studies (VISTAS), Pallavaram, Chennai, Tamil Nadu, India
6)Dr. S. Metha Mounakshi
Address of Applicant :Associate Professor, Department of Commerce (General), Vels Institute of Science Technology and Advanced Studies (VISTAS), Pallavaram, Chennai, Tamil Nadu, India
7)Dr. Mohana Priya. M
Address of Applicant :Assistant Professor, Department of Commerce (General), Vels Institute of Science Technology and Advanced Studies (VISTAS), Pallavaram, Chennai, Tamil Nadu, India
8)Dr. Arthvi. A
Address of Applicant :Assistant Professor, Department of Commerce (General), Vels Institute of Science Technology and Advanced Studies (VISTAS), Pallavaram, Chennai, Tamil Nadu, India
9)Dr. V. Suganthi
Address of Applicant :Program Director, Fisheries Business School, Tamil Nadu Dr. J. Jayalalithaa Fisheries University, ECR, Chennai 603112, Tamil Nadu, India
10)Dr. V. Kalai Selvan
Address of Applicant :HOD, Department of Business Administration, Shree Chandraprabha Jain College, Chennai, 603103, Tamil Nadu, India
11)Ruchita Damodar
Address of Applicant :Vellore Institute of Technology, Vellore, Tamil Nadu, India
12)Ganeshwar Singh Mankar
Address of Applicant :Vellore Institute of Technology, Vellore, Tamil Nadu, India
13)Hamsitha Challagandla
Address of Applicant :Final Year B.Tech, Institute of Technology, Vellore, Tamil Nadu, India
14)Pooja Khot
Address of Applicant :Final Year B.Tech, Information Technology, SIT Vellore, Flat No. 101, Sree Residency Apartments, New Mandla Nagar, Air Bypass Road, 517501

(51) International classification : C22B0007000000, C22B0009100000, C22B0011000000, C22B0011100000, H05B0006500000
(86) International Application No : NA
Filing Date : NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number : NA
Filing Date : NA
(62) Divisional to Application Number : NA
Filing Date : NA

(57) Abstract :
The E-Waste Management System presented in this invention combines state-of-the-art technologies to address the growing issue of electronic waste (e-waste). Leveraging Internet of Things (IoT) sensors, the system offers real-time monitoring of e-waste collection bins, optimizing the collection process while reducing fuel consumption and carbon emissions. Artificial intelligence (AI) algorithms automate the sorting and categorization of electronic components, significantly enhancing recycling efficiency. Secondary recycling methods recover valuable materials from e-waste, reducing the reliance on resource-intensive mining and manufacturing. A digital traceability system ensures transparency and accountability throughout the e-waste management process. This system is adaptable to various scales and settings, making it suitable for urban, industrial, and remote areas. It aligns with global sustainable development goals, contributes to responsible consumption, production, and climate action, and offers economic benefits through job creation and the promotion of a circular economy. Moreover, it protects public health by preventing e-waste pollution, thereby addressing the environmental, economic, and social aspects of the e-waste challenge. Accompanied Drawing [FIGS. 1-3]

No. of Pages : 22 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/01/2024

(21) Application No.202441002967 A
(43) Publication Date : 23/02/2024

(54) Title of the invention : A SYSTEM AND METHOD OF VARIABLE MASKING PATTERN-BASED QR CODES FOR HIGH SECURITY OF INFORMATION

(71)**Name of Applicant :**
1)Anand R
Address of Applicant :No.181 2nd Cross Near Rock Gym

III ○ <

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :28/02/2024

(21) Application No.202441014567 A
(43) Publication Date : 08/03/2024

(54) Title of the invention : ADVANCED INVENTORY MANAGEMENT USING AI-DRIVEN DEMAND FORECASTING IN E-COMMERCE OPERATIONS

(51) International classification :G06Q0030020000, G06Q0010080000, G06N0020000000, G06Q0010060000, G06Q0030060000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)DR. MURUGESAN. D
Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF COMMERCE, SCHOOL OF MANAGEMENT STUDIES AND COMMERCE, VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES(VISTAS), PALLAVARAM, CHENNAI-600117, TAMILNADU, INDIA. ----------
2)DR. A.KRISHNAN
3)DR. C.CHITRA
4)DR. P.VANITHA
5)DR. G MYTHILI
6)DR. SWATHI PRADEEBA P
7)DR. KALAISELVI K
8)DR. SHASHILA.S
9)DR. K. MAJINI JES BELLA
10)DR. P. VIJAYASHREE
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
1)DR. MURUGESAN. D
Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF COMMERCE, SCHOOL OF MANAGEMENT STUDIES AND COMMERCE, VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES(VISTAS), PALLAVARAM, CHENNAI-600117, TAMILNADU, INDIA. ----------
2)DR. A.KRISHNAN
Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF COMMERCE, SCHOOL OF MANAGEMENT STUDIES AND COMMERCE, VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES(VISTAS), PALLAVARAM, CHENNAI-600117, TAMILNADU, INDIA. ----------
3)DR. C.CHITRA
Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF COMMERCE, SCHOOL OF MANAGEMENT STUDIES AND COMMERCE, VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES(VISTAS), PALLAVARAM, CHENNAI-600117, TAMILNADU, INDIA. ----------
4)DR. P.VANITHA
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMMERCE, SCHOOL OF MANAGEMENT STUDIES AND COMMERCE, VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES(VISTAS), PALLAVARAM, CHENNAI-600117, TAMILNADU, INDIA. ----------
5)DR. G MYTHILI
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMMERCE, SCHOOL OF MANAGEMENT STUDIES AND COMMERCE, VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES(VISTAS), PALLAVARAM, CHENNAI-600117, TAMILNADU, INDIA. ----------
6)DR. SWATHI PRADEEBA P
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMMERCE, SCHOOL OF MANAGEMENT STUDIES AND COMMERCE, VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES(VISTAS), PALLAVARAM, CHENNAI-600117, TAMILNADU, INDIA. ----------
7)DR. KALAISELVI K
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMMERCE, SCHOOL OF MANAGEMENT STUDIES AND COMMERCE, VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES(VISTAS), PALLAVARAM, CHENNAI-600117, TAMILNADU, INDIA. ----------
8)DR. SHASHILA.S
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMMERCE, SCHOOL OF MANAGEMENT STUDIES AND COMMERCE, VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES(VISTAS), PALLAVARAM, CHENNAI-600117, TAMILNADU, INDIA. ----------
9)DR. K. MAJINI JES BELLA
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMMERCE, SCHOOL OF MANAGEMENT STUDIES AND COMMERCE, VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES(VISTAS), PALLAVARAM, CHENNAI-600117, TAMILNADU, INDIA. ----------
10)DR. P. VIJAYASHREE
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMMERCE, SCHOOL OF MANAGEMENT STUDIES AND COMMERCE, VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES(VISTAS), PALLAVARAM, CHENNAI-600117, TAMILNADU, INDIA. ----------

(57) Abstract :
The invention introduces an Advanced Inventory Management System utilizing AI-Driven Demand Forecasting for e-commerce operations. It leverages artificial intelligence to sift through large datasets, including historical sales, consumer behaviors, and external influences, to accurately predict future product demands. Utilizing machine learning algorithms, the system continuously improves its forecasts, enabling businesses to adjust inventory levels dynamically, thereby minimizing waste and improving customer satisfaction. This adaptable and scalable solution supports various e-commerce sectors, emphasizing operational efficiency, sustainability, and ethical data practices.

No. of Pages : 21 No. of Claims : 10

FORM- 5
THE PATENTS ACT, 1970
(39 of 1970)
&
The Patents Rules, 2003 DECLARATION
AS TO INVENTORSHIP
[See Section 10(6) and Rule 13(6)]

1. NAME OF THE APPLICANT(S)

I/We Dr. B. Senthil Kumar, all are citizen of India, Address of one of the Applicant: Research supervisor and Asst. Professor VISTAS, Chennai, Tamilnadu

hereby declare that the true and first inventor(s) of the invention disclosed in the complete specification filed in pursuance of ~~my~~ / our application numbered _____ dated 02/03/2024 ~~is/~~are

2. INVENTOR(S)

(a) NAME	(b) NATIONALITY	(c) ADDRESS
1. Dr. B. Senthil Kumar	Indian	Research supervisor and Asst. Professor VISTAS, Chennai, Tamilnadu
2. Dr. R M Lavanya	Indian	Associate Professor, Department of MCA, PVKKIT, Sanapa Road, Rudram Peta, Ananthapuram, Andhra Pradesh-515001
3. Sree Vidhya S	Indian	Assistant Professor, Erode Sengunthar Engineering College, Thudupathi, Perundurai, Erode, Tamilnadu, India.
4. Dr. D.Menaga	Indian	Assistant Professor, Department of Computer Science and Engineering,St.Joseph's Institute of Technology, Chennai, Kanchipuram, Taminadu -600119

(22) Date of filing of Application :14/03/2024 (43) Publication Date : 29/03/2024

(54) Title of the invention : DEEP RESIDUAL NETWORK WITH LONG-SHORT TERM MEMORY FOR DETECTING SPEECH DISORDERS IN CHILDREN

(51) International classification :G09B0019040000, G06N0003040000, G10L0015060000, A61B0005000000, G09B0017000000
(86) International Application No :NA
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(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)S.Balamurugan
Address of Applicant :No.21, Kalloori Nagar, Peelamedu, Coimbatore-641004, Tamilnadu, India ---------- ----------
2)Dr.M.Meenakshi
3)Dr.T.Sree Kala
4)M.Senthil Murugan
5)Dr.V.Kathiresan
6)Dr. Palli Murali Mohan Kumar
7)Dr.Priya Arundhati
8)Dr.Bharati Wukkadada
9)P. Chinnaraj
10)Kavana Salimath
11)Dr.Pavithra.G
12)Dr.T.C.Manjunath
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)S.Balamurugan
Address of Applicant :No.21, Kalloori Nagar, Peelamedu, Coimbatore-641004, Tamilnadu, India ---------- ----------
2)Dr.M.Meenakshi
Address of Applicant :Saveetha School of Engineering, Saveetha University, Thandalam campus, Chennai-602 105, TamilNadu, India ---------- ----------
3)Dr.T.Sree Kala
Address of Applicant :Associate Professor, Department of Computer Science, VISTAS, Pallavaram, Chennai - 600117, Tamilnadu, India ---------- ----------
4)M.Senthil Murugan
Address of Applicant :Assistant Professor in CS, Immaculate College for Women, Viriyur, Kidangudaiyambattu, Tamil Nadu 606402, India ---------- ----------
5)Dr.V.Kathiresan
Address of Applicant :Professor, A.V. P. College of Arts and Science, Tirupur, Chettipalayam, A.Thirumuruganpoondi, Tamil Nadu 641652, India ---------- ----------
6)Dr. Palli Murali Mohan Kumar
Address of Applicant :Senior Assistant Professor, Mathematics (BS&H), GMR Institute of Technology, Rajam, Vizianagaram, Andhra Pradesh - 532 127, India ---------- ----------
7)Dr.Priya Arundhati
Address of Applicant :Sai Vidya Institute of Technology, Rajanukunte, Bengaluru - 560 064 Karnataka, India ---------- ----------

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Ministry of Commerce & Industry,
Government of India

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Application Details	
APPLICATION NUMBER	202441023980
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	26/03/2024
APPLICANT NAME	**1 . Dr.S.Vennila Fathima Rani** **2 . Dr.S.Jayakani** **3 . Dr.Biplab Tripathy** **4 . Adarsh Gahlaut** **5 . Dr. Lakshman K** **6 . Shilpa Mary T** **7 . Dr. V. Rama** **8 . Dr. Neeti Mathur** **9 . Dr. Shaman Gupta** **10 . Suzan Andria Abel**
TITLE OF INVENTION	THE DIGITAL SELF AND REAL SELF AMONG SOCIAL MEDIA USERS IN INDIA
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	patentpublucation@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--

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Department for Promotion of Industry and Internal Trade
Ministry of Commerce & Industry,
Government of India

INTELLECTUAL PROPERTY INDIA
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GEOGRAPHICAL INDICATIONS

Application Details	
APPLICATION NUMBER	202441052093
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	08/07/2024
APPLICANT NAME	1 . Dr. Senthamarai Thennavan 2 . Dr. S. Vijayakumar 3 . Dr. S. Horizan Prasanna Kumar 4 . K. Viji 5 . Dr. K. N. Uma Devi 6 . Ms. S. Saikripa 7 . Dr. M.P.Srinivasan 8 . Dr.Venkateswara U 9 . Dr.G.Meenadevi 10 . Dr.N.Gopinath
TITLE OF INVENTION	ENHANCING MULTILINGUAL NATURAL LANGUAGE PROCESSING IN EDUCATIONAL APPLICATIONS THROUGH DEEP LEARNING
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	gopinathit14@gmail.com
E-MAIL (UPDATED Online)	
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(21) Application No.202441059832 A

(43) Publication Date : 16/08/2024

RNING MODEL FOR DETECTION AND CLASSIFICATION OF SKIN CANCER

(71)**Name of Applicant :**
1)S.Balamurugan
Address of Applicant :No 21, Kalloori Nagar, Peelamedu, Coimbatore-641004, Tamilnadu, India ----------
2)Dr.T.Sree Kala
3)C .T. Ashita
4)Dr. B. Srinivasa Rao
5)Reeba Rose L
6)Narasimhula L. V. Venugopal
7)Dr Veera Aruna Chittibomma
8)Dr SVB Subrahmanyeswara Rao
9)Dr.Ramasamy V
10)Dr. Suma M.R
11)Dr.Pavithra.G
12)Dr.T.C.Manjunath
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)S.Balamurugan
Address of Applicant :No.21, Kalloori Nagar, Peelamedu, Coimbatore-641004, Tamilnadu, India ----------
2)Dr.T.Sree Kala
Address of Applicant :Associate Professor, Department of Computer Science, VISTAS, Pallavaram, Chennai - 600117, Tamilnadu, India ----------
3)C .T. Ashita
Address of Applicant :Assistant Professor, Soka Ikeda College of arts and science for women, Research Scholar, VISTAS, Chennai – 600 117. Tamil Nadu, India ----------
4)Dr. B. Srinivasa Rao
Address of Applicant :Professor & HOD, Department of IT, Lakireddy Bali Reddy College of Engineering (Autonomous), Mylavaram, Andra Pradesh-521230, India ----------
5)Reeba Rose L
Address of Applicant :Department of CSE, St Joseph's college of Engineering, OMR , Chennai - 600119, Tamilnadu, India ----------
6)Narasimhula L. V. Venugopal
Address of Applicant :Assistant Professor, CSE, GMR Institute of Technology, GMR Nagar, Rajam, Vizianagaram, Andhra Pradesh- 532127, India ----------
7)Dr Veera Aruna Chittibomma
Address of Applicant :Ramachandra College of Engineering, NH -16,Bypass road,Vatluru,Eluru-534007, Andra Pradesh, India ----------
8)Dr SVB Subrahmanyeswara Rao
Address of Applicant :Professor, Ramachandra College of Engineering Eluru-534007, Andra Pradesh, India ----------
9)Dr.Ramasamy V
Address of Applicant :Associate Professor, Department of Computer Science and Engineering, Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology (Deemed to be University), Chennai- – 600 062, Tamilnadu, India ----------
10)Dr. Suma M.R
Address of Applicant :Assistant Professor, Dept. of Electronics & Communication Engg , Dayananda Sagar College of Engg. (DSCE), Kumaraswamy Layout, Shavigemalleshwara Hills, Bangalore- 560111, Karnataka, India ----------
11)Dr.Pavithra.G
Address of Applicant :Associate Professor, Electronics & Communication Engg Dept. (ECE), Dayananda Sagar College of Engg. (DSCE), Block No. 17, Room No. 17205, Kumaraswamy Layout, Shavigemalleshwara Hills, Bangalore- 560078, Karnataka, India ----------
12)Dr.T.C.Manjunath
Address of Applicant :Professor & Head of The Dept. Electronics & Communication Engg Dept. (ECE), Dayananda Sagar College of Engg. (DSCE), Block No. 17, Room No. 208 Kumaraswamy Layout, Shavigemalleshwara Hills, Bangalore-560078, Karnataka, India ----------

assification of skin cancer presents a novel approach integrating advanced computational techniques to enhance diagnostic propagation and refraction of water waves, to optimize the hyperparameters of a deep learning architecture specifically nvolutional neural networks (CNNs) in identifying and categorizing various types of skin cancer from dermoscopic images. nces the model's precision and reliability, making it a significant advancement in the field of medical diagnostics and skin

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :19/09/2024

(21) Application No.202441071053 A

(43) Publication Date : 04/10/2024

(54) Title of the invention : BLOCKCHAIN-BASED SECURE TRANSACTION SYSTEM FOR E-COMMERCE PLATFORMS

(51) International classification :H04L0009320000, H04L0009000000, G06Q0020400000, G06Q0020380000, G06Q0030060100

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)DR. RADHIKA R
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMMERCE, BS ABDUR RAHMAN CRESCENT INSTITUTE OF SCIENCE AND TECHNOLOGY, VANDALUR CHENNAI ---------- ----------
2)DR. SOWMYA S
3)DR. SIDHEAKKYA.PG
4)DR. P. SUNANTHA
5)DR. M. PRATHAPAN
6)DR. S. AISWARYA
7)DR. N. TAIBANGNGANBI
8)DR.A.MEENAKSHI
9)DR.M.SENTHIL
10)DR.S.VENNILAA SHREE
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
1)DR. RADHIKA R
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMMERCE, BS ABDUR RAHMAN CRESCENT INSTITUTE OF SCIENCE AND TECHNOLOGY, VANDALUR CHENNAI ---------- ----------
2)DR. SOWMYA S
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF BUSINESS ECONOMICS, ETHIRAJ COLLEGE FOR WOMEN, CHENNAI ---------- ----------
3)DR. SIDHEAKKYA.PG
Address of Applicant :SENIOR MANAGER - INVESTMENT SERVICES, WEALTH WORKS CAPITAL, CHENNAI ---------- ----------
4)DR. P. SUNANTHA
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMMERCE(CS), VELS INSTITUTE OF SCIENCE, TECHNOLOGY& ADVANCED STUDIES(VISTAS), PALLAVARAM, CHENNAI-600117, TAMILNADU, INDIA ---------- ----------
5)DR. M. PRATHAPAN
Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF COMMERCE(CS), VELS INSTITUTE OF SCIENCE, TECHNOLOGY& ADVANCED STUDIES(VISTAS), PALLAVARAM, CHENNAI-600117, TAMILNADU, INDIA ---------- ----------
6)DR. S. AISWARYA
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMMERCE(CS), VELS INSTITUTE OF SCIENCE, TECHNOLOGY& ADVANCED STUDIES(VISTAS), PALLAVARAM, CHENNAI-600117, TAMILNADU, INDIA ---------- ----------
7)DR. N. TAIBANGNGANBI
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMMERCE(CS), VELS INSTITUTE OF SCIENCE, TECHNOLOGY& ADVANCED STUDIES(VISTAS), PALLAVARAM, CHENNAI-600117, TAMILNADU, INDIA ---------- ----------
8)DR.A.MEENAKSHI
Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF COMMERCE(CS), VELS INSTITUTE OF SCIENCE, TECHNOLOGY& ADVANCED STUDIES(VISTAS), PALLAVARAM, CHENNAI-600117, TAMILNADU, INDIA ---------- ----------
9)DR.M.SENTHIL
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMMERCE(CS), VELS INSTITUTE OF SCIENCE, TECHNOLOGY& ADVANCED STUDIES(VISTAS), PALLAVARAM, CHENNAI-600117, TAMILNADU, INDIA ---------- ----------
10)DR.S.VENNILAA SHREE
Address of Applicant :PROFESSOR AND HEAD, DEPARTMENT OF COMMERCE(CS), VELS INSTITUTE OF SCIENCE, TECHNOLOGY& ADVANCED STUDIES(VISTAS), PALLAVARAM, CHENNAI-600117, TAMILNADU, INDIA ---------- ----------

(57) Abstract :
The proposed invention is a blockchain-based secure transaction system designed for e-commerce platforms to address critical challenges such as fraud, data breaches, and high transaction costs. Leveraging a decentralized ledger, the system ensures immutable record-keeping, enhanced security, and data integrity. It employs smart contracts to automate payment processes and dispute resolutions, eliminating intermediaries and reducing costs. The system integrates cryptographic techniques and zero-knowledge proofs to protect user privacy and maintain secure authentication. It is compatible with existing platforms, scalable, and efficient, featuring real-time transaction processing and decentralized arbitration. Additionally, it supports regulatory compliance while reducing environmental impact through energy-efficient algorithms. This invention provides a comprehensive, future-proof solution for secure, efficient, and transparent online transactions.

No. of Pages : 26 No. of Claims : 10

Intellectual Property Office

Certificate of Registration for a UK Design

Design number: 6341591

Grant date: 19 February 2024

Registration date: 23 January 2024

This is to certify that,

in pursuance of and subject to the provision of Registered Designs Act 1949, the design of which a representation or specimen is attached, had been registered as of the date of registration shown above in the name of

Dr. Suresh Palarimath, Pookutti Muzammil, Dr. Mohammad Faizee, John Ruby

Elizabeth, Dr. Anubrata Mondal, Maria Sheeba Paulraj, Avick Kumar Dey,

Harshal Patil, Dr. Ashok Kumar Katta, Sivaprakash Muthukrishnan

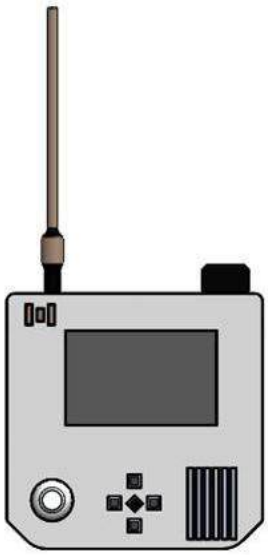
in respect of the application of such design to:

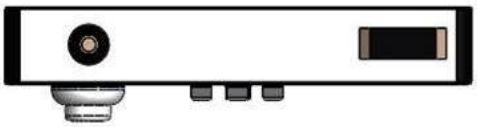
Employee Confidence Tracking Device

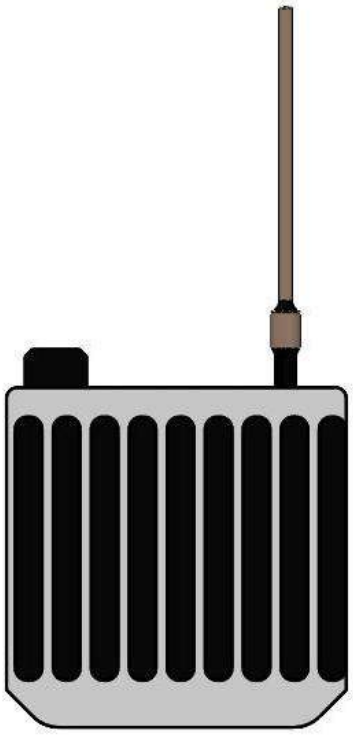
International Design Classification:
Version: 14-2023
Class: 10 CLOCKS AND WATCHES AND OTHER MEASURING INSTRUMENTS, CHECKING AND SIGNALLING INSTRUMENTS
Subclass: 04 OTHER MEASURING INSTRUMENTS, APPARATUS AND DEVICES

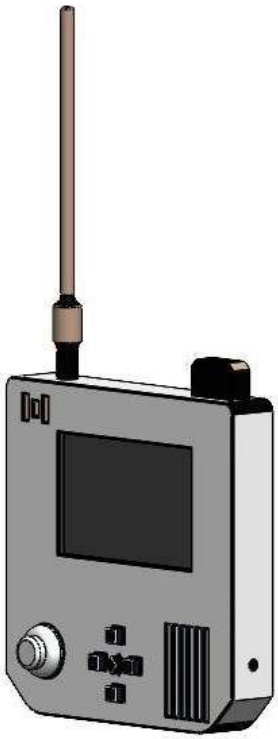
Adam Williams
Comptroller-General of Patents, Designs and Trade Marks
Intellectual Property Office
The attention of the Proprietor(s) is drawn to the important notes overleaf.

Representation of Designs









Intellectual Property Office

Certificate of Registration for a UK Design

Design number: 6350777

Grant date: 16 April 2024

Registration date: 02 March 2024

This is to certify that,

in pursuance of and subject to the provision of Registered Designs Act 1949, the design of which a representation or specimen is attached, had been registered as of the date of registration shown above in the name of

Mr. Satish Rajarathnam, Mr. Gerald Vijay Reuben, Dr. Nakul Satpaul Sharma,

Mr. Mandar Pramod Diwakar, Dr. Sumetha Madhu, Mrs. Shanmugavani Samy,

Dr. Pakkiriswamy Ramalingam Kiresee Saghana

in respect of the application of such design to:

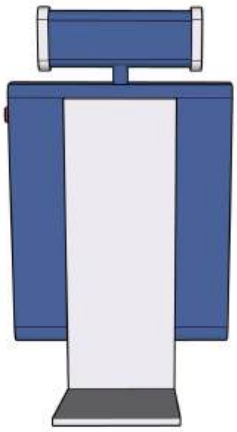
Device for Psychological Profiling

International Design Classification:
Version: 14-2023
Class: 14 RECORDING, TELECOMMUNICATION OR DATA PROCESSING EQUIPMENT
Subclass: 02 DATA PROCESSING EQUIPMENT AS WELL AS PERIPHERAL APPARATUS AND DEVICES

Adam Williams

Adam Williams
Comptroller-General of Patents, Designs and Trade Marks
Intellectual Property Office
The attention of the Proprietor(s) is drawn to the important notes overleaf.

Representation of Designs



FORM 1

FeeRs.1000 **Application for Registration of Designs**

Section5and 44

You are requested to register the accompanying in

1. ClassNo:**10-05**
2. In the name of:

Sr. No.	Name	Patent Nationality	Address
1.	Dr. A. SHEENA	**UK**	Assistant Professor, Department of Civil Engineering, Vels Institute of Science, Technology & Advanced Studies (VISTAS), Pallavaram, Chennai, Tamil Nadu, Pin:600117 India
2.	Dr. JAYALAKSSHMI	**UK**	Associate Professor, Department of Information Technology, Vels Institute of Science, Technology & Advanced Studies (VISTAS), Pallavaram, Chennai, Tamil Nadu, Pin:600117 India
3.	Dr. C. ANBARASI	**UK**	Assistant Professor, Department of Computer Science and Information Technology, Vels Institute of Science, Technology & Advanced Studies (VISTAS), Pallavaram, Chennai, Tamil Nadu, Pin:600117 India
4.	Dr. M. YOGESHWARI MONOHARAN	**UK**	Assistant Professor, Department of Data Analyst, Saveetha Liberal Arts and Science College, Saveetha Nagar, Thandalam, Chennai Tamil Nadu Pin:602105 India
5.	Mrs. J. REVATHI	**UK**	Assistant Professor, PG and Research Department of Computer Science and Application, Vivekanandha College of Arts and Sciences for Women (Autonomous), Elayampalam, Tiruchengode, Namakkal, Tamilnadu-637205
6.	Dr. R. NANDHAKUMAR	**UK**	Assistant Professor, PG and Research Department of Computer Science and Application, Vivekanandha College of Arts and Sciences for Women (Autonomous), Elayampalam, Tiruchengode, Namakkal, Tamilnadu-637205

Who claims to be the proprietor there of

3. Two exactly similar **Representations** of the design accompany this request.

4. The design is to be applied to **"Smart AI enabled Photovoltaic sensor Panel Glass Walls"**

5. Address for service:

Declaration:

The applicant claims to be the proprietor of the design and that to the best of their knowledge and belief the design is new or original.

Dated-03/02/2025

To, The Controller of Designs,
Patent Office, UK

Certificate of Registration for a UK Design

Design number: 6354015

Grant date: 27 March 2024

Registration date: 20 March 2024

This is to certify that,

in pursuance of and subject to the provision of Registered Designs Act 1949, the design of which a representation or specimen is attached, had been registered as of the date of registration shown above in the name of

Dr. SUNDARARAJ JOE PATRICK GNANARAJ, Dr. RAMESH SHANMUGAM,

Ms. MONIKAA RAGUPATHY , Mr. NAVEENKUMAR MANIVEL , Mr. SHREE

MAKESH NAGARAJAN, Ms. VIJAYALAKSHMI RAMAR , Ms. DEEPA

RAJAMANICKAM, Dr. SENTHIL KRISHNAMOORTHY

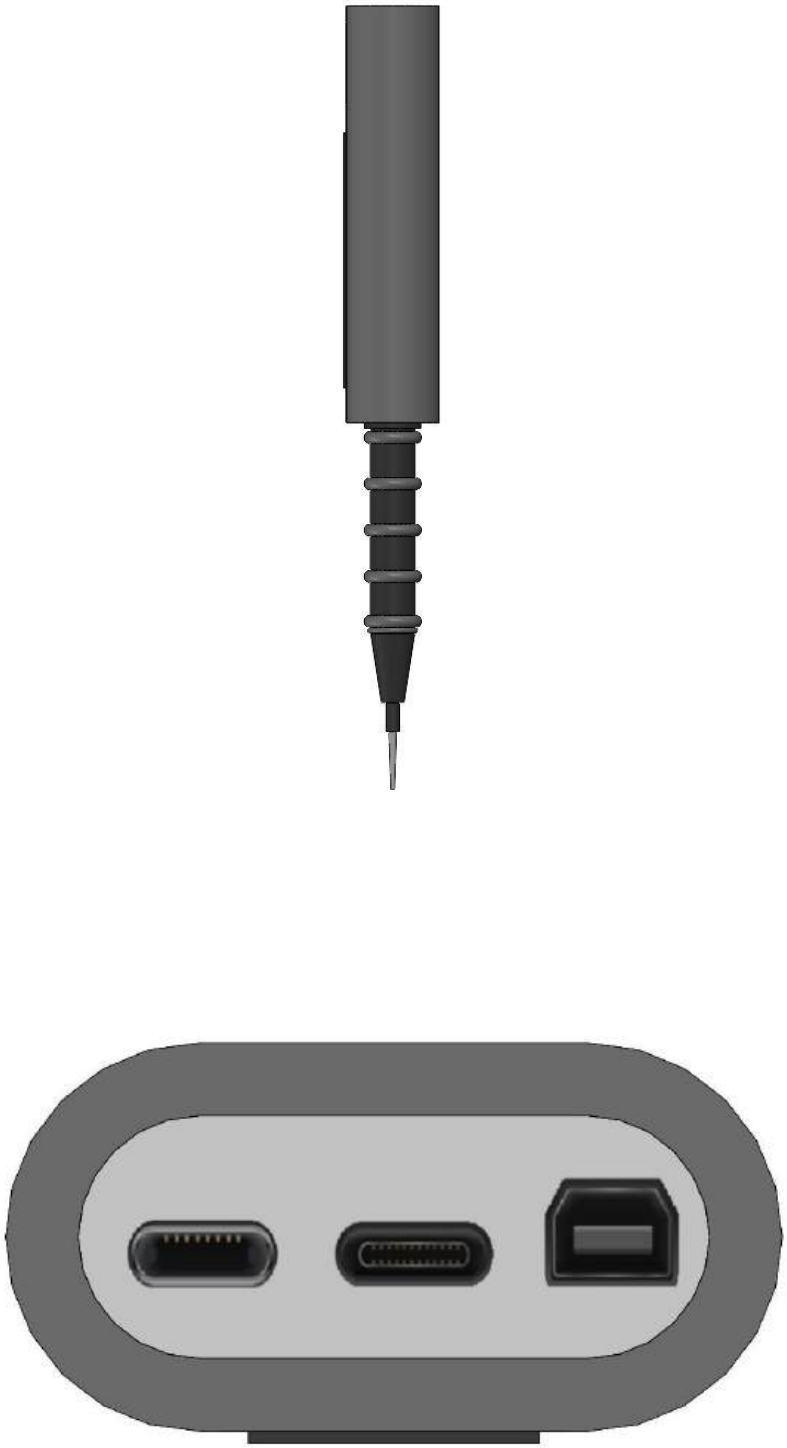
in respect of the application of such design to:

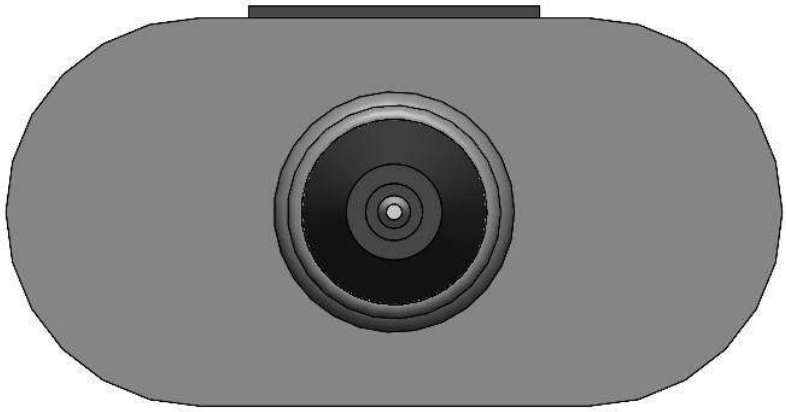
A PEN FOR CONVERTING TEXT

International Design Classification:
Version: 14-2023
Class: 14 RECORDING, TELECOMMUNICATION OR DATA PROCESSING EQUIPMENT
Subclass: 02 DATA PROCESSING EQUIPMENT AS WELL AS PERIPHERAL APPARATUS AND DEVICES

Adam Williams
Comptroller-General of Patents, Designs and Trade Marks
Intellectual Property Office
The attention of the Proprietor(s) is drawn to the important notes overleaf.

Representation of Designs





Certificate of Registration for a UK Design

Design number: 6377789

Grant date: 19 July 2024

Registration date: 11 July 2024

This is to certify that,

in pursuance of and subject to the provision of Registered Designs Act 1949, the design of which a representation or specimen is attached, had been registered as of the date of registration shown above in the name of

Mr. Arun Antonyraj, Dr.Rajendrasing Pardeshi, Dr. Gunaseelan Duraikannu, Dr.

Shaik Chand Basha, Paras Mehak Khokhar, Kiran Mehra, Rajinder Kaur,

Chitsimran Narang, Muthusamy Govindaraj, Yavana Rani Subramanian

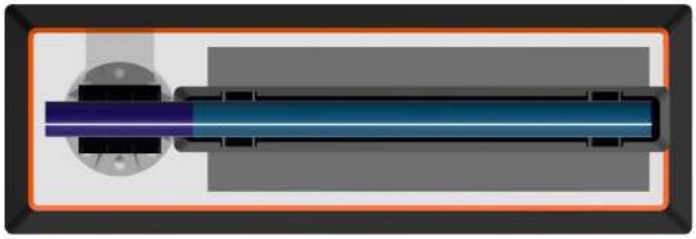
in respect of the application of such design to:

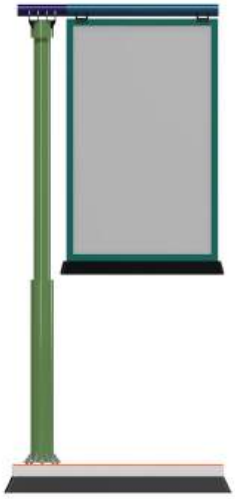
Portable billboard for Tourism marketing and promotion

International Design Classification:
Version: 14-2023
Class: 20 SALES AND ADVERTISING EQUIPMENT, SIGNS
Subclass: 03 SIGNS, SIGNBOARDS AND ADVERTISING DEVICES

Adam Williams
Comptroller-General of Patents, Designs and Trade Marks
Intellectual Property Office
The attention of the Proprietor(s) is drawn to the important notes overleaf.

Representation of Designs





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Department for Promotion of Industry and Internal Trade
Ministry of Commerce & Industry,
Government of India

(http://ipindia.nic.in/index.htm)

(http://ipindia.nic.in/index.htm)

Application Details	
APPLICATION NUMBER	202421058868
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	04/08/2024
APPLICANT NAME	1 . Dr. Sushil Beliya 2 . Dr. Bindu Nandakumar Menon 3 . Dr.Avula Vijayalakshmi 4 . Ms. Seema E 5 . Dr. V. Girija 6 . Suram Syam Prasad 7 . Dr. S. Poonguzhali 8 . Dr.Ajita Singh Tiwari 9 . Dr.Jitandera Kumar Singh 10 . Dr.M. Devika 11 . Dr.R. Arun
TITLE OF INVENTION	THE ROLE OF REFLECTIVE PRACTICE IN ENHANCING TEACHER EFFICACY
FIELD OF INVENTION	MECHANICAL ENGINEERING
E-MAIL (As Per Record)	patentipr23@gmail.com
ADDITIONAL-EMAIL (As Per Record)	

E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	30/08/2024

Application Status	
APPLICATION STATUS	**Awaiting Request for Examination**

View Documents

➡ Filed ➡ Published ➡ RQ Filed ➡ Under Examination ➡ Disposed

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Department for Promotion of Industry and Internal Trade
Ministry of Commerce & Industry,
Government of India

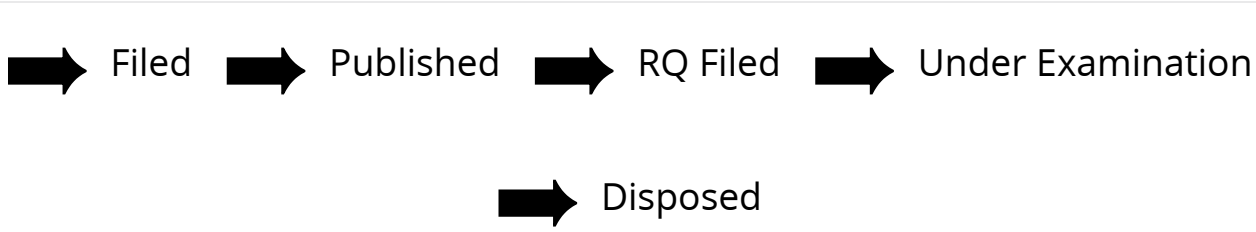
(http://ipindia.nic.in/index.htm)

(http://ipindia.nic.in/index.htm)

Application Details	
APPLICATION NUMBER	202421064002
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	23/08/2024
APPLICANT NAME	1 . Dr.Balasaheb Babanrao Kalhapure 2 . Santosh Shivlal Dhamon 3 . Mrs.Lenka Swathi 4 . Mr.Pathmanaban K 5 . Richa Grover 6 . Dr. Sandip Haldar 7 . Dr Ayyappa Chakravarthi M 8 . Mr. Anvesh Perada 9 . R.Kalpana 10 . Sunny Kuhar
TITLE OF INVENTION	BLOCKCHAIN AND AI-BASED SECURE DIGITAL ADVERTISING SYSTEM FOR REAL-TIME TARGETING AND FRAUD PREVENTION IN SOCIAL MEDIA
FIELD OF INVENTION	COMMUNICATION
E-MAIL (As Per Record)	senanipindia@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	06/09/2024

Application Status	
APPLICATION STATUS	Awaiting Request for Examination

View Documents



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Ministry of Commerce & Industry,
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PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

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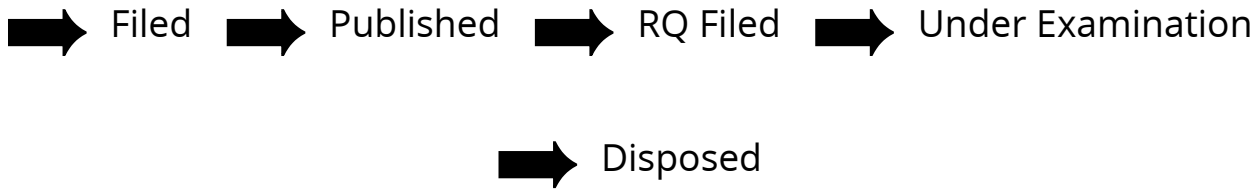
Application Details	
APPLICATION NUMBER	202421072240
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	24/09/2024
APPLICANT NAME	1 . Shubhrata Kanungo 2 . Dr. B. V. Ramana 3 . Dr.A.Thangam 4 . Divya Jiju 5 . Dr.K.Sasikala 6 . Dr. D . Mahammad Rafi 7 . Dr Sneha Vishnu More 8 . Kumbha Umamaheswari Devi 9 . Dr.A.Saritha 10 . Dr. Amol D. Sonawane 11 . Dr. Sagar B. Shinde 12 . Dr. Aparna Pande
TITLE OF INVENTION	MACHINE LEARNING APPROACHES FOR SOLVING THE TRAVELLING SALESMAN PROBLEM IN SUPPLY CHAIN LOGISTICS
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	patent.vaagaiip@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	01/11/2024

Application Status

APPLICATION STATUS	Awaiting Request for Examination

View Documents



In case of any discrepancy in status, kindly contact ipo-helpdesk@nic.in

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/02/2024

(21) Application No.202441007390 A
(43) Publication Date : 08/03/2024

(54) Title of the invention : ANALYSIS OF MENTAL HEALTH OF HIGH SCHOOL STUDENT IN EDUCATION SECTOR DURING PANDEMIC

(51) International classification :A61P0025220000, G06Q0050200000, A61P0025000000, A61P0025240000, A23L0033135000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)Dr.P.RAMA KRISHNA
Address of Applicant :PROFESSOR & HOD, DEPARTMENT OF MANAGEMENT SCIENCE, SASI INSTITUTE OF TECHNOLOGY & ENGINEERING, TADEPALLIGUDEM, ANDHRA PRADESH-534 101 Tadepalligudem ---------- ----------
2)Dr. C M NAVEEN KUMAR
3)MRS. YAMINI PADMANABAN
4)PROF.LEESA SANTOSH
5)Dr. RACHNA PRASAD
6)Dr.S.PRAMILA
7)Mr.J LOGESHWARAN
8)Dr.S.NANGAIYARKARASI
9)Dr.G.BIJEESH PUSHPA
10)Mr.K.RATHEESH KUMAR
11)Mr.M.VADIVEL
12)Mrs. MENDA SREEVANI
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)Dr.P.RAMA KRISHNA
Address of Applicant :PROFESSOR & HOD, DEPARTMENT OF MANAGEMENT SCIENCE, SASI INSTITUTE OF TECHNOLOGY & ENGINEERING, TADEPALLIGUDEM, ANDHRA PRADESH-534 101 Tadepalligudem ---------- ----------
2)Dr. C M NAVEEN KUMAR
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE & BUSINESS SYSTEMS, MALNAD COLLEGE OF ENGINEERING, HASSAN-573202 Hassan ---------- ----------
3)MRS. YAMINI PADMANABAN
Address of Applicant :ASSISTANT PROFESSOR, ENGLISH, SRI SAI RAM INSTITUTE OF TECHNOLOGY , CHENNAI, TAMILNADU – 600044, INDIA Chennai ---------- ----------
4)PROF.LEESA SANTOSH
Address of Applicant :ASSOCIATE PROFESSOR, APPLIED SCIENCES, SAGAR INSTITUTE OF RESEARCH AND TECHNOLOGY , BHOPAL , MADHYA PRADESH -462026, INDIA Bhopal ---------- ----------
5)Dr. RACHNA PRASAD
Address of Applicant :ASSOCIATE PROFESSOR, APPLIED SCIENCES , SAGAR INSTITUTE OF RESEARCH AND TECHNOLOGY, BHOPAL , MADHYA PRADESH- 462023, INDIA Bhopal ---------- ----------
6)Dr.S.PRAMILA
Address of Applicant :ASSOCIATE PROFESSOR, SCHOOL OF COMMERCE, FINANCE & ACCOUNTANCY, CHRIST UNIVERSITY, GHAZIABAD, UTTAR PRADESH- 201003, INDIA Ghaziabad ---------- ----------
7)Mr.J LOGESHWARAN
Address of Applicant :RESEARCH SCHOLAR, DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, SRI ESHWAR COLLEGE OF ENGINEERING, COIMBATORE-TAMIL NADU Coimbatore ---------- ----------
8)Dr.S.NANGAIYARKARASI
Address of Applicant :ASSISTANT PROFESSOR, EDUCATION , VELS INSTITUTE OF SCIENCE, TECHNOLOGY AND ADVANCED STUDIES (VISTAS), CHENNAI, TAMILNADU - 600 117, INDIA Chennai ---------- ----------
9)Dr.G.BIJEESH PUSHPA
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF BUSINESS ADMINISTRATION , DR.SNS RAJALAKSHMI COLLEGE OF ARTS AND SCIENCE , COIMBATORE , TAMIL NADU – 641049, INDIA Coimbatore ---------- ----------
10)Mr.K.RATHEESH KUMAR
Address of Applicant :ASSISTANT PROFESSOR, COMMERCE, SRI RAMAKRISHNA MISSION VIDYALAYA COLLEGE OF ARTS AND SCIENCE, COIMBATORE-641020, TAMIL NADU, INDIA Coimbatore ---------- ----------
11)Mr.M.VADIVEL
Address of Applicant :ASSISTANT PROFESSOR, COMMERCE, SRI RAMAKRISHNA MISSION VIDYALAYA COLLEGE OF ARTS AND SCIENCE, COIMBATORE, TAMIL NADU-641020, INDIA Coimbatore ---------- ----------
12)Mrs. MENDA SREEVANI
Address of Applicant :DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, INSTITUTE OF AERONAUTICAL ENGINEERING, DUNDIGAL- 500043, HYDERABAD, INDIA Hyderabad ---------- ----------

(57) Abstract :
ABSTRACT ANALYSIS OF MENTAL HEALTH OF HIGH SCHOOL STUDENT IN EDUCATION SECTOR DURING PANDEMIC The impact of the COVID-19 pandemic on the mental health of high school students in the education sector. It highlights the increasing concern over the psychological well-being of students as a result of the disruption in their education and social lives caused by the pandemic. One factor contributing to the negative impact on mental health is the sudden shift to online learning and lack of in-person social interaction, leading to feelings of isolation and loneliness. In addition, the fear and uncertainty surrounding the pandemic, such as the risk of infection and the economic impact on families, can also contribute to heightened levels of stress and anxiety among students. It notes that the closure of schools may have also resulted in the loss of a safe and supportive environment for students, which can negatively affect their mental health. This is especially significant for students who come from disadvantaged backgrounds or those already facing mental health challenges. It also mentions the potential long-term effects of the pandemic on mental health, such as increased rates of depression, anxiety, and post-traumatic stress disorder (PTSD) among high school students. It highlights the urgent need for support and intervention to address the mental health of high school students in the education sector during this unprecedented time. It also emphasizes the importance of implementing strategies to promote resilience and coping mechanisms among students to mitigate the negative effects of the pandemic on their mental well-being.

No. of Pages : 12 No. of Claims : 8

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Department for Promotion of Industry and Internal Trade
Ministry of Commerce & Industry,
Government of India

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Application Details	
APPLICATION NUMBER	202441011249
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	18/02/2024
APPLICANT NAME	1 . manoharan sudharsan 2 . Dr. M. SUDHARSAN 3 . Dr V BHARATHI 4 . Dr K PRAKASH 5 . Dr. S Saradha 6 . Dr. G. THAILAMBAL 7 . Dr. K NANDHINI
TITLE OF INVENTION	BLOCK BASED STENOSIS DETECTION IN CORONARY VESSELS OF X-RAY ANGIOGRAMS
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	sudharsanms15@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--

PUBLICATION DATE (U/S 11A)	08/03/2024

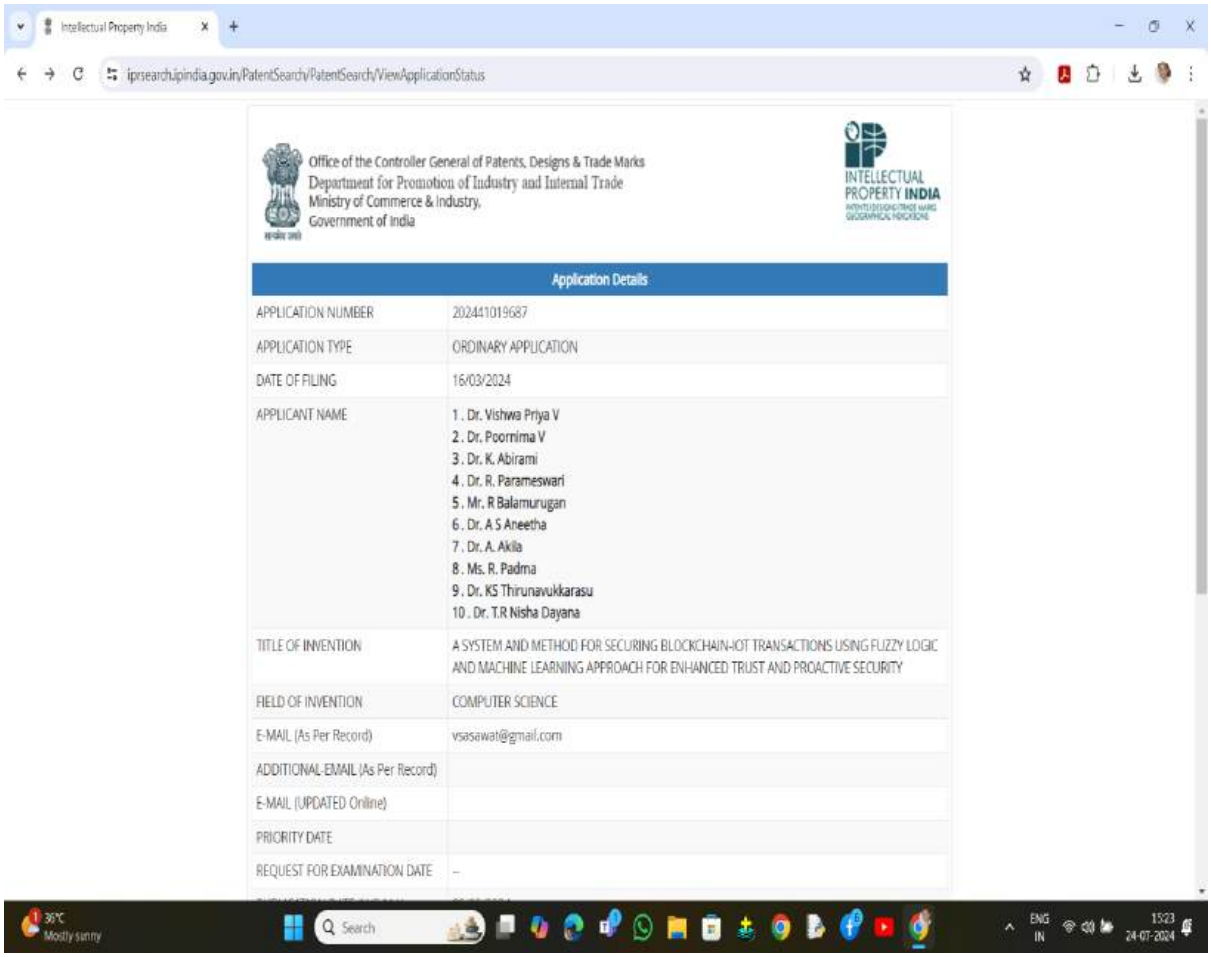
Application Status	
APPLICATION STATUS	**Awaiting Request for Examination**

View Documents

➡ Filed ➡ Published ➡ RQ Filed ➡ Under Examination ➡ Disposed

In case of any discrepancy in status, kindly contact ipo-helpdesk@nic.in

A SYSTEM AND METHOD FOR SECURING BLOCKCHAIN-IOT TRANSACTIONS USING FUZZY LOGIC AND MACHINE LEARNING APPROACH FOR ENHANCED TRUST AND PROACTIVE SECURITY



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Department for Promotion of Industry and Internal Trade
Ministry of Commerce & Industry,
Government of India

INTELLECTUAL PROPERTY INDIA

Application Details

APPLICATION NUMBER	202441019687
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	16/03/2024
APPLICANT NAME	1. Dr. Vishwa Priya V 2. Dr. Poornima V 3. Dr. K. Abirami 4. Dr. R. Parameswari 5. Mr. R Balamurugan 6. Dr. A S Aneetha 7. Dr. A. Akila 8. Ms. R. Padma 9. Dr. KS Thirunavukkarasu 10. Dr. T.R Nisha Dayana
TITLE OF INVENTION	A SYSTEM AND METHOD FOR SECURING BLOCKCHAIN-IOT TRANSACTIONS USING FUZZY LOGIC AND MACHINE LEARNING APPROACH FOR ENHANCED TRUST AND PROACTIVE SECURITY
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	vsasawat@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
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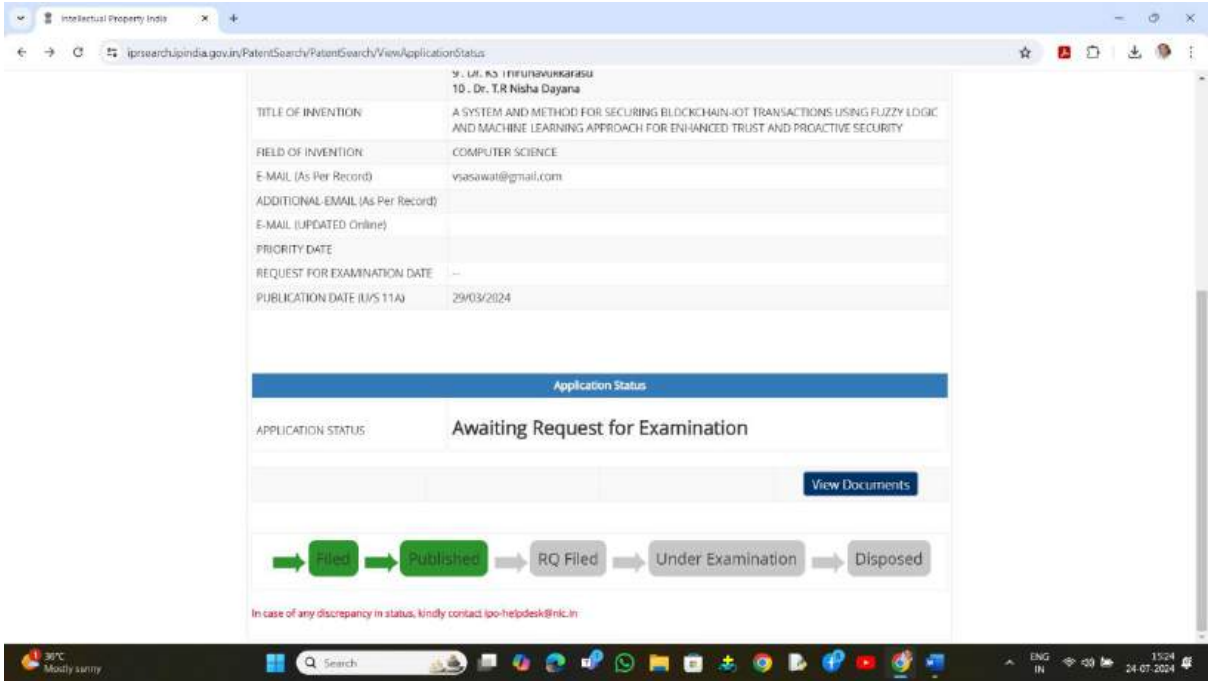

TITLE OF INVENTION	A SYSTEM AND METHOD FOR SECURING BLOCKCHAIN-IOT TRANSACTIONS USING FUZZY LOGIC AND MACHINE LEARNING APPROACH FOR ENHANCED TRUST AND PROACTIVE SECURITY
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	vsasawat@gmail.com
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A SYSTEM AND METHOD FOR SECURING BLOCKCHAIN-IOT TRANSACTIONS USING FUZZY LOGIC AND MACHINE LEARNING APPROACH FOR ENHANCED TRUST AND PROACTIVE SECURITY

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FORM 2

THE PATENTS ACT,1970 (39 of 1970) & THE PATENT RULES, 2003

Complete Specification (See section10 and rule13)

1. Title of the Invention: **India E-Commerce Industry Break All Sales Records in Festive Season**

2. Applicants

Name	Nationality	Address
Dr.S.JAYAKANI	Indian	ASSOCIATE PROFESSOR , COMMERCE, VELS INSTITUTE OF SCIENCE, TECHNOLOGY AND ADVANCED STUDIES, CHENNAI, TAMILNADU – 600117, INDIA
Dr. S.VENNILA FATHIMA RANI	Indian	ASSOCIATE PROFESSOR , COMMERCE , VELS INSTITUTE OF SCIENCE ,TECHNOLOGY AND ADVANCED STUDIES , CHENNAI , TAMIL NADU – 600117, INDIA
Dr.S. VENKATA SIVA KUMAR	Indian	ASSOCIATE PROFESSOR, MANAGEMENT STUDIES , VARDHAMAN COLLEGE OF ENGINEERING, SHAMSHABAD, HYDERABAD, TELANGANA-501218, INDIA
Dr.H.KAMILAH BANU	Indian	ASSISTANT PROFESSOR , COMMERCE, VELS INSTITUTE OF SCIENCE, TECHNOLOGY AND ADVANCED STUDIES, CHENNAI, TAMILNADU -600117, INDIA
Dr.G.S.DHANASHREE	Indian	ASSISTANT PROFESSOR , COMMERCE, VELS INSTITUTE OF SCIENCE, TECHNOLOGY AND ADVANCED STUDIES, CHENNAI, TAMILNADU -600117, INDIA

Mr.NANDAN MOHAN	Indian	ASSISTANT PROFESSOR, SCHOOL OF BUSINESS MANAGEMENT , JAIPUR NATIONAL UNIVERSITY, JAIPUR, RAJASTHAN-302017
Dr. LILA SIMON	Indian	PROFESSOR, MANAGEMENT, THE BHOPAL SCHOOL OF SOCIAL SCIENCES, BHEL,HABIBGANJ P.O , BHOPAL, MADHYA PRADESH-462024
Dr. A. KRISHNAN	Indian	ASSOCIATE PROFESSOR, COMMERCE, VELS INSTITUTE OF SCIENCE, TECHNOLOGY AND ADVANCED STUDIES, PALLAVARAM, CHENNAI, TAMILNADU- 600 117, INDIA
Dr .SUPRIYAA	Indian	ASSOCIATE PROFESSOR, COMMERCE, GOVERNMENT FIRST GRADE COLLEGE, MAGADI-562120, RAMANAGARA , KARNATAKA, INDIA
MENDA SREEVANI	Indian	DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, INSTITUTE OF AERONAUTICAL ENGINEERING, DUNDIGAL- 500043, HYDERABAD, INDIA
Mr.J LOGESHWARAN	Indian	RESEARCH SCHOLAR, DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, SRI ESHWAR COLLEGE OF ENGINEERING, COIMBATORE- TAMIL NADU
Dr. KANNAN VELLINGIRI	Indian	CLDC RESEARCH AND DEVELOPMENT NO.997, METTUPALAYAM ROAD, NEAR X-CUT SIGNAL, R.S.PURAM, COIMBATORE, TAMIL NADU -641002. INDIA (BHARAT)

3.Preamble to the description:

The following specification particularly describes the invention and the manner in which it is to be performed.

4. DESCRIPTION

FIELD OF THE INVENTION

The present invention relates to the field of E-commerce.

Background problem for the Innovation

The India e-commerce industry has witnessed a rapid growth in recent years, with more and more people turning to online shopping for their everyday needs. However, the industry faces a major challenge during the festive season, when sales see a sharp spike. One of the biggest background problems for the India e-commerce industry during the festive season is the sheer volume of orders and traffic on their websites. With millions of people across the country looking to purchase gifts, clothes, and other products, e-commerce platforms are under immense pressure to handle the surge in demand. This often leads to technical glitches, slow loading times, and website crashes, which can result in a poor shopping experience for customers. Another major challenge for the e-commerce industry during the festive season is ensuring timely delivery of orders. With a large number of orders being placed, logistics companies are stretched to their limits, leading to delays in delivery and customer dissatisfaction. This also puts a strain on the e-commerce companies, who have to bear the brunt of negative reviews and feedback from unhappy customers. Additionally, the festive season also sees a rise in fraudulent activities, with scammers taking advantage of the high volume of online transactions. This puts the e-commerce industry at risk and affects their reputation, as customers may lose trust in the platforms and hesitate to make future purchases. Another underlying issue for the e-commerce industry during the festive season is the intense competition among different platforms. With everyone offering discounts and deals, it becomes a race to grab the attention of customers and lure them into making a purchase. This often leads to businesses resorting to unethical practices, such as inflating prices to offer higher discounts, which ultimately affects consumer trust and the credibility of the industry as a whole. In conclusion, while the festive season brings in record-breaking sales for the India e-commerce industry, it also presents several challenges and problems. From technical difficulties to logistics issues and fraudulent activities, the industry needs to address these background problems to ensure a smooth and successful shopping experience for customers.

Innovation model

India's e-commerce industry has experienced a significant innovation in recent years, with the introduction of online shopping platforms. This industry has been

growing rapidly, and during the festive season, it broke all sales records. The innovation of this industry has transformed the way Indians shop, making it convenient, easy, and accessible for everyone. Firstly, the e-commerce industry has made it possible for people to shop from the comfort of their homes. In the past, people had to physically visit stores, which was a time-consuming and tiring process, especially during the festive seasons. With the introduction of online shopping, people can now browse through an extensive range of products and make purchases with just a few clicks. This has not only saved time and effort but has also made shopping a more enjoyable experience. Secondly, the e-commerce industry has brought about a revolution in the retail sector. During the festive season, traditional brick and mortar stores often struggle to keep up with the demand for products, leading to long queues and limited stock availability. However, with e-commerce platforms, sellers can display an unlimited number of products and reach a wider audience. This has resulted in a significant increase in sales, breaking all records during the festive season. Moreover, the availability of discounts and offers on e-commerce platforms has made shopping during the festive season even more attractive. Customers can now enjoy huge discounts and deals on a wide range of products, making their festive shopping more economical. This has also encouraged many people to switch from traditional shopping methods to online shopping, leading to a further increase in sales. Additionally, the e-commerce industry has also played a critical role in promoting local businesses during the festive season. With the rise of small and medium enterprises, e-commerce platforms have provided them with a platform to showcase their products and reach a wider audience. This has not only boosted the sales of these businesses but has also contributed to the overall growth of the economy. In conclusion, the innovation of India's e-commerce industry has had a significant impact on the country's retail sector, particularly during the festive season. It has not only made shopping more convenient for customers but has also boosted sales for businesses. With the changing consumer behavior and advancements in technology, the e-commerce industry is expected to continue breaking sales records in the upcoming festive seasons. The proposed innovation model is shown in fig.1.

The Indian e-commerce industry has witnessed a tremendous growth in recent years, and this trend was further escalated during the festive season. With the emergence of various e-commerce platforms, consumers have shifted their focus towards online shopping, making it an essential part of their festive preparations. This year, the implementation of the e-commerce industry in India has witnessed a remarkable feat as it broke all previous sales records during the festive season. One of the primary reasons for the success of e-commerce in India during the festive season is the pandemic. The fear of contracting the virus has shifted consumers' preferences towards online shopping as it offers a safer and convenient option for purchasing goods. This massive shift in consumer behavior

has allowed e-commerce platforms to witness an unprecedented surge in sales. The implementation of advanced technology and innovative marketing strategies has also played a significant role in the success of the Indian e-commerce industry during this festive season. E-commerce giants like Flipkart and Amazon offered enticing discounts, deals, and cashback offers to attract customers. Various homegrown e-commerce platforms also joined the festive race, offering customized and localized deals to their customers. Moreover, the easy availability of a wide range of products, ranging from electronics to fashion, has also contributed to the record-breaking sales. E-commerce platforms have been continuously evolving to cater to the diverse needs and preferences of consumers, providing them with a seamless and hassle-free shopping experience. The festive season brings with it a sense of nostalgia and excitement, and e-commerce platforms have capitalized on this sentiment by introducing exclusive festive collections and offers. This move has further boosted sales, especially in the fashion and home decor categories, making it a win-win situation for both consumers and e-commerce businesses. In conclusion, the Indian e-commerce industry's implementation has proved to be a game-changer during the festive season, breaking all previous sales records. This success not only reflects the growing trust and reliance of consumers on online shopping but also showcases the e-commerce industry's significant contribution to the Indian economy. With a continually growing market and technological advancements, the future of the Indian e-commerce industry looks promising and is set to break even more records in the upcoming festive seasons.

Summary of the Innovation

The India e-commerce industry has once again proved its resilience and potential as it breaks yet another record in terms of sales during the festive season. As the country gears up to celebrate various festivals, online shopping has become the preferred mode of purchasing goods, thanks to the convenience, variety, and discounts offered by the e-commerce platforms. According to a recent report by RedSeer Consulting, the e-commerce industry in India recorded sales of $8.3 billion during the festive season, which is a 65% increase from the previous year. This remarkable growth can be attributed to various factors such as the increasing penetration of smartphones, access to affordable internet services, and the ongoing COVID-19 pandemic that has encouraged people to switch to online shopping. One of the major contributors to this tremendous performance is the e-commerce giants such as Amazon, Flipkart, and Reliance's JioMart, which have been aggressively competing with each other to capture a larger share of the market. These companies have been offering heavy discounts, cashback offers, and attractive deals to entice customers, leading to a surge in online sales. Moreover, the festive season sees an increase in demand for various products such as electronics, fashion, and home appliances. E-commerce platforms have capitalized

on this trend and have stocked up on these products, offering them at discounted prices, thus attracting more customers. The COVID-19 pandemic has also brought about a significant shift in consumer behavior, with more and more people opting for contactless and safe modes of shopping. This has further boosted the growth of the e-commerce industry, as people have become more dependent on online platforms for their purchases. However, this performance analysis of the India e-commerce industry also highlights the challenges faced by the sector. The increase in sales has also put a strain on the delivery and logistics systems, leading to delayed deliveries in some cases. The surge in demand has also created a shortage of certain products, causing frustration among customers. In conclusion, the performance analysis of the India e-commerce industry during the festive season has been nothing short of spectacular. As the industry continues to grow and evolve, it is crucial for the e-commerce platforms to address the challenges and provide a seamless experience to their customers. With the festive season just around the corner, it will be interesting to see if the e-commerce industry can break its own sales record and continue to thrive in the competitive market. The Indian e-commerce industry has seen tremendous growth in recent years, with more and more people turning to online shopping for their everyday needs. However, the festive season brings a whole new level of sales and opportunities for e-commerce companies. This festive season, the performance of the Indian e-commerce industry has surpassed all expectations, with record-breaking sales and revenue. The surge in online shopping during the festive season can be attributed to various factors. Firstly, the widespread use of smartphones and the internet has made it easier for people to shop online from the comfort of their homes. This has led to an increase in the number of online shoppers in the country. Moreover, the convenience and ease of access offered by e-commerce platforms have made them a preferred choice for shoppers looking for a hassle-free shopping experience. Another significant factor contributing to the success of the Indian e-commerce industry during this festive season is the aggressive strategies adopted by e-commerce companies. The big players in the market launched a slew of discounts, deals, and offers to lure customers. This not only attracted more customers but also helped in increasing the average order value, thus boosting the overall sales of the industry. To handle the spike in demand during the festive season, e-commerce companies heavily invested in optimizing their operations and ensuring a smooth shopping experience for their customers. This included expanding their warehousing and logistics infrastructure, enhancing their website and app capabilities, and strengthening their customer service. These efforts have paid off as the industry witnessed minimal glitches and delays, ensuring a seamless shopping experience for the customers. Furthermore, the COVID-19 pandemic and the resulting lockdowns have also played a significant role in the success of the e-commerce industry this festive season. With people avoiding crowded places and choosing to shop from the safety of their homes, online shopping has emerged as a preferred choice. This trend is likely to continue in the future,

further boosting the growth of the e-commerce industry in India. In conclusion, the performance of the Indian e-commerce industry in the festive season has been nothing short of exceptional. From record-breaking sales to efficient operations and customer satisfaction, the industry has achieved new heights. With the continuous growth of the industry and the increasing adoption of online shopping, the future of e-commerce in India looks bright, making it a key player in the country's economy.

Claims

We claim,

1. The India e-commerce industry has once again made headlines as it has broken all previous sales records during this festive season. Every year, this industry witnesses a massive surge in consumer spending during the festive season and this year was no different. However, what sets this year apart is the unprecedented growth in online sales.

2. With the ongoing pandemic, people have shifted towards online shopping as a safer and more convenient option. This has led to a significant increase in the number of e-commerce platforms and their offerings. The industry has witnessed a fierce competition among various players to attract customers with attractive deals and discounts. This fierce competition has ultimately led to a win-win situation for both the sellers and buyers.

3. The festive season, which typically includes popular festivals like Diwali, Dussehra, and Navratri, has always been a crucial time for businesses in India. However, this year's sales figures have surpassed all expectations. According to reports, online shopping has registered a growth of over 36% compared to last year's festive season. The industry experts credit this growth to factors such as increased e-commerce penetration in smaller towns and cities, aggressive marketing strategies, and a wide range of products available.

4. Moreover, the adoption of digital payments has also played a significant role in boosting online sales. With the government promoting cashless transactions and the introduction of various digital payment solutions, consumers are more inclined towards making online purchases. This has not only made the shopping experience more convenient but has also helped in curbing the spread of the virus.

5. In conclusion, the rise of the India e-commerce industry has been remarkable, especially during this festive season. With this growth trajectory, it is evident that online shopping is here to stay and will

continue to play a significant role in shaping India's retail landscape. It is also a testament to the ever-evolving consumer behavior and the growing importance of the digital economy in the country.

Dated this 22nd day of March 2024.

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Senthil Kumar B
Agent for the applicant
IN/PA-1549

ABSTRACT

India E-Commerce Industry Break All Sales Records in Festive Season

The e-commerce industry in India has seen a massive surge in sales during the festive season, with record-breaking numbers being reported by major players in the market. This trend can be attributed to the growing popularity of online shopping and the widespread availability of affordable smartphones and internet connectivity. Consumers are increasingly turning to e-commerce platforms for their festive shopping needs, thanks to the convenience, variety of products, and attractive deals and discounts offered by these platforms. The industry has also seen a significant boost from the current COVID-19 pandemic, which has forced people to stay indoors and shop from the safety of their homes. This has led to an unprecedented increase in online sales, with the industry witnessing a significant shift from offline to online shopping. With the e-commerce industry in India continuously evolving and adapting to the changing consumer preferences, it is no surprise that it has broken all sales records in the festive season, solidifying its position as a major player in the Indian retail market.

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Department for Promotion of Industry and Internal Trade
Ministry of Commerce & Industry,
Government of India

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Application Details	
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DATE OF FILING	26/03/2024
APPLICANT NAME	1 . S.Balamurugan 2 . Dr.K.Dharmarajan 3 . Dr.K.Abirami 4 . Ambika S 5 . Dr.Bharati Wukkadada 6 . Dr.Priya Arundhati 7 . Dr.K.Praveen 8 . Dr.J.Manoranjini 9 . Prof. Raminder Kaur 10 . Prof. Abhishek Vichare 11 . Dr.Saurav Verma 12 . Dr Sengole Merlin
TITLE OF INVENTION	IoT Based Intelligent Smart Watch for Early Prediction of Paralysis among Older Adults
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	sbnbala@gmail.com
ADDITIONAL-EMAIL (As Per Record)	sbnbala@gmail.com
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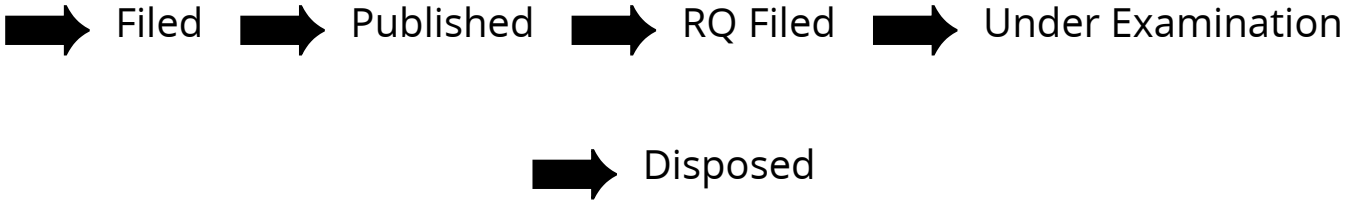

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Department for Promotion of Industry and Internal Trade
Ministry of Commerce & Industry,
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APPLICANT NAME	1 . Dr Mahammad Rafi D 2 . Dr. Arvind Jaiswal 3 . Justin Kumar K.I 4 . Bhavneet Kaur 5 . Sonam Juneja 6 . Shikha Atwal 7 . Amit Kumar Sharma 8 . Pranavan S 9 . Namasivayam M 10 . Anthony Savio Herminio da Piedade Fernandes 11 . Dr. M. Saravanan 12 . Dr. M. Vetrivel
TITLE OF INVENTION	DEEP LEARNING APPROACHES FOR ENERGY CONSUMPTION FORECASTING AND MANAGEMENT SYSTEMS IN SMART HOMES
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	sgowthami12@gmail.com

ADDITIONAL-EMAIL (As Per Record)	
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APPLICANT NAME	1 . Ms. G. Dhanalakshmi 2 . Dr. S. Sandhiya
TITLE OF INVENTION	INTUITIONISTIC FUZZY HYPERSOFT SETS FOR COMPLEX DECISION MODELING
FIELD OF INVENTION	COMMUNICATION
E-MAIL (As Per Record)	nmkumar797@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
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(51) International classification	:A61K0036480000, A61P0003100000, A61K0038170000, G01N0033500000, C12N0005071000
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(71)**Name of Applicant :**
1)Mrs. Reshma Vishal Pawar
Address of Applicant :Research Scholar, Vels Institute of Science Technology & Advance Studies Vels University, Pallavaram, Chennai Pallavaram ---------- ----------
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)Mrs. Reshma Vishal Pawar
Address of Applicant :Research Scholar, Vels Institute of Science Technology & Advance Studies Vels University, Pallavaram, Chennai Pallavaram ---------- ----------
2)Dr. S. Umadevi
Address of Applicant :Associate Professor, Vels Institute of Science ,Technology & Advance Studies, Vels University, Pallavaram, Chennai Pallavaram ---------- ----------
3)Miss Pooja Nilkant Shinde
Address of Applicant :SPM's College of Pharmacy, Akluj, Taluka Malshiras, Dist-Solapur Akluj ---------- ----------
4)Dr. Neha Sachin Kajale
Address of Applicant :Chetana College of Pharmacy, Sardewadi,Indapur, Dist-Pune Indapur ---------- ----------
5)Miss Snehal Uttam Kashid
Address of Applicant :SPM's College of Pharmacy, Akluj, Taluka Malshiras, Dist-Solapur Akluj ---------- ----------
6)Miss Prashali Gorakh Shinde
Address of Applicant :SPM's College of Pharmacy, Akluj, Taluka Malshiras, Dist-Solapur Akluj ---------- ----------

(57) Abstract :
The present invention reveals a polyherbal extract composition of Acacia catechu with potential anti-diabetic activity. This composition includes Acacia catechu extracts combined with pharmaceutically acceptable carriers/solvent systems and other necessary excipients. The invention particularly provides a method for testing isolated extracts of Acacia catechu through developed in-vitro cell line studies. The in-vitro cell line efficacy study using solvent-extracted Acacia catechu with the MIN6 cell line, along with the in-vitro Annexin V apoptosis assay by flow cytometry, demonstrates that the ethyl acetate extract of Acacia catechu possesses significant anti-diabetic potential. This disclosed invention provides strong evidence that the ethyl acetate extract (EAE) has a binding affinity with beta cell proteins and can increase insulin secretion from pancreatic beta cells, outperforming the standard drug Genistein currently available in the market. Therefore, Acacia catechu shows promise as a potent drug for Type I diabetes due to its ability to enhance insulin secretion and its prominent interactions with beta cell proteins responsible for insulin secretion.

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(51) International classification :H04W0084180000, B64C0039020000, H04L0067510000, H04W0028020000, G05D0001000000
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(71)**Name of Applicant :**
1)Ganti Sreelakshmi
Address of Applicant :Associate Professor, ECE, Geethanjali College of Engineering and Technology, Hyderabad, 501301 Huderabad ---------- ----------
2)Dr.C.M.Sudha Arogya Mary
3)Dr J. Mohan
4)P. Hariharan
5)Dr. S. Alagendran
6)Dr.B.Lokeswara Rao
7)Dr.V.Savitha
8)Divya poomalai
9)S Muthurajan
10)Anthony Savio Herminio Da Piedade Fernandes
11)Udayakumar N
12)Sunetra Chatterjee
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)Ganti Sreelakshmi
Address of Applicant :Associate Professor, ECE, Geethanjali College of Engineering and Technology, Hyderabad, 501301 Huderabad ---------- ----------
2)Dr.C.M.Sudha Arogya Mary
Address of Applicant :Associate Professor, School of Management, S.A.College of Arts & Science, Chennai-77 Chennai ---------- ----------
3)Dr J. Mohan
Address of Applicant :Professor, Department of ECE, Institute of Aeronautical Engineering, Hyderabad- 500 043 Hyderabad ---------- ----------
4)P. Hariharan
Address of Applicant :Assistant Professor. & COE, Adhiparasakthi College of Arts & Science, G. B. Nagar, Kalavai, 632506 Ranipet ---------- ----------
5)Dr. S. Alagendran
Address of Applicant :Associate Professor, Department of Biochemistry, Dhanalakshmi Srinivasan Agriculture College (Affiliated to Tamilnadu Agricultural University, Coimbatore-3) Perambalur -621212 Tamil Nadu, India. Perambalur ---------- ----------
6)Dr.B.Lokeswara Rao
Address of Applicant :Dean Freshman & Professor of ECE, Hyderabad Institute of Technology & Management, Gowdavelly, Medchal District, Hyderabad, Telangana State-501401 Hyderabad ---------- ----------
7)Dr.V.Savitha
Address of Applicant :Associate professor dept of cse sns college of technology Coimbatore Coimbatore ---------- ----------
8)Divya poomalai
Address of Applicant :Acs College of engineering,kengeri, Bangalore,pin 560074 Bangalore ---------- ----------
9)S Muthurajan
Address of Applicant :AP/EEE, Agni College of Technology, Thalambur, Chennai Chennai ---------- ----------
10)Anthony Savio Herminio Da Piedade Fernandes
Address of Applicant :Founder Owner, Trading Equations, 54/C, Xell, Bastora, Bardez, Goa (403507) Bastora ---------- ----------
11)Udayakumar N
Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, Vels Institute of Science Tecnology and Advanced Studies, Chennai, Pallavaram, 600117 Chennai ---------- ----------
12)Sunetra Chatterjee
Address of Applicant :Assistant Professor, Department of Computer Applications, IFIM College, E.City, Bengaluru-560100 Bengaluru ---------- ----------

(57) Abstract :
Integrating IOT, AI, cloud computing and wireless sensor networks in drone technology to improvise Autonomous agriculture is the proposed invention. The proposed invention focuses on understanding how drone technology along with AI and latest technologies can help to achieve efficient autonomous agriculture. The invention focuses on analyzing the parameters of Wireless Sensor Networks in Drone Technology using algorithms of IOT and AI approach.

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(71)**Name of Applicant :**
1)Dr. Indumathi R S
Address of Applicant :Associate professor, Department of Mathematics, Maharaja Institute of Technology Mysore, Belawadi, S R Patna taluk, Mandya-571477, Karnataka, India. ---------- ----------
2)Chandrashekara. A C
3)Dr. Arvind Siddapuram
4)Pramod S
5)Sreekala C K
6)Mrs. Swathi H R
7)Dr G Purushothaman
8)Dr. Suvarna Raagavendaran
9)Dr.A. Saritha
10)Dr. V. Dhayalan
11)Anthony Savio Herminio da Piedade Fernandes
12)VM Saravana
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)Dr. Indumathi R S
Address of Applicant :Associate professor, Department of Mathematics, Maharaja Institute of Technology Mysore, Belawadi, S R Patna taluk, Mandya-571477, Karnataka, India. ---------- ----------
2)Chandrashekara. A C
Address of Applicant :Assistant Professor, Department of Mathematics, Maharani's Science College for Women, J.L.B. Road, Mysore-570005, Karnataka, India. ---------- ----------
3)Dr. Arvind Siddapuram
Address of Applicant :Professor, Department of CSE, Hyderabad Institute of Technology and Management, Malkajgiri, Hyderabad-501401, Telangana, India. ---------- ----------
4)Pramod S
Address of Applicant :Assistant Professor, Department of Mathematics, NITTE Meenakshi Institute of Technology, Yelahanka Bangalore, Karnataka, India 560064 ---------- ----------
5)Sreekala C K
Address of Applicant :Assistant Professor, Department of Mathematics, NITTE Meenakshi Institute of Technology, Yelahanka, Bangalore, Karnataka, India 560064 ---------- ----------
6)Mrs. Swathi H R
Address of Applicant :Assistant Professor, Department of Mathematics, NITTE Meenakshi Institute of Technology, Bangalore-64, Karnataka, India. ---------- ----------
7)Dr G Purushothaman
Address of Applicant :Associate Professor, Department of Mathematics, St. Joseph's College of Engineering, Chennai-600119, Tamil Nadu, India. ---------- ----------
8)Dr. Suvarna Raagavendaran
Address of Applicant :Assistant professor, Department of Economics, VISTAS, P.V Vaithiyalingam Rd, old pallavaram, Chennai-600117, Kancheepuram, Tamil Nadu, India. ---------- ----------
9)Dr.A. Saritha
Address of Applicant :Assistant Professor, Department of CSE, Vels Institute of Science Technology and Advanced Studies, Chennai,600117, Chengalpattu, Tamil Nadu, India. ---------- ----------
10)Dr. V. Dhayalan
Address of Applicant :Associate Professor, Department of Management Studies, Sri Sairam Engineering College, Chennai 600044, Tamil Nadu, India. ---------- ----------
11)Anthony Savio Herminio da Piedade Fernandes
Address of Applicant :Founder Owner, Trading Equations, 54/C, Xell, Bastora, Bardez, North Goa, Goa (403507), India. ---------- ----------
12)VM Saravana
Address of Applicant :Assistant Professor, Department of CSE, Rajarajeswari College of Engineering, Bengaluru, 560074, Karnataka, India. ---------- ----------

(57) Abstract :
ENHANCING LEARNING ANALYTICS THROUGH GRAPH THEORY AND MACHINE LEARNING IN EDUCATIONAL FEEDBACK SYSTEMS The method for the development of a substantial dataset of educational interactions from a variety of learning environments, including student contributions, instructor comments, and evaluations, is used in this work. Graph theory is used to construct a network model of these interactions, in which nodes represent the students, instructors, and learning resources, and edges represent the feedback links. The outcomes of the social network analysis offer the learning route for a course. Additionally, the Bayesian network was used to infer each learner's 21st century learning skills over a number of time periods. Thus, the study's suggested learning analytics can offer both the student learning and the useful feedback for learning. Instead of doing real data analysis, the bulk of LA articles concentrated on putting out LA concepts or frameworks and doing proof-of-concept analyses. These themes included performance prediction, decision assistance for educators and students, behavioral pattern recognition and learner modeling, and dropout prediction. FIG.1

No. of Pages : 16 No. of Claims : 1

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DATE OF FILING	14/07/2024
APPLICANT NAME	1 . Dr. R. Suryanarayana 2 . Dr. S. Karthigai Selvam 3 . Mrs. P. Deepa 4 . Mrs. Akula Swarna Latha 5 . Dr. Bonala Madhavi 6 . Dr. M. Varalakshmi 7 . Dr. K. Venugopal Reddy 8 . Dr. Samir Dey 9 . Ms. A. Punitha 10 . Dr. G. Jayaraman 11 . Dr. Harikumar Pallathadka
TITLE OF INVENTION	INTERACTIVE MATHEMATICS TUTORING: A PERSONALIZED LEARNING JOURNEY WITH ADAPTIVE PATHWAYS
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	patentipr23@gmail.com

ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
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Application Status	
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APPLICATION NUMBER	202441053751
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APPLICANT NAME	1 . Dr. Kanchana P 2 . Shanta H Biradar 3 . Dr. Kabirdoss Devi 4 . Dr. Priya Sethuraman 5 . Prof.Pramod Prakash Khandare 6 . Priyanka Sharma 7 . G. S. Jackulin Asha 8 . Dr. M. Murali Krishnan 9 . R Kalaivani 10 . Vijetha Bhat
TITLE OF INVENTION	RECOGNIZING THE CARD FRAUD USING MACHINE LANGUAGE METHODS
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	patentpublucation@gmail.com
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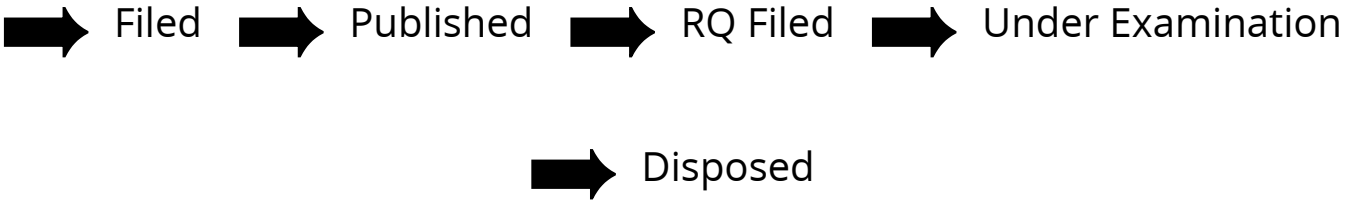

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Application Details	
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DATE OF FILING	15/07/2024
APPLICANT NAME	1 . Dr. Sharefa Noufina K P 2 . Dr. S. Vijayarani 3 . Dr. Stephen Babu 4 . Dr. Pratima Mishra 5 . Dr. Priya Sethuraman 6 . Dr. C. Shanmuga Priya 7 . Dr. R. Priyadharshini 8 . Dr. A. Narmadha 9 . Dr. Gajanethi Swathi Kumari 10 . Dr. D. Suganthi
TITLE OF INVENTION	VALUE BASED LEARNING IN THE CURRENT INDIAN EDUCATIONAL FRAMEWORK
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	patentpublucation@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	02/08/2024

Application Status	
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Application Details	
APPLICATION NUMBER	202441055550
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APPLICANT NAME	1 . Dr. V. K. Veerakumar 2 . Ms. A. Aaziya 3 . Dr. Ch. Sudipta Kishore Nanda 4 . R. Raajalakshmi 5 . Dr. Sudha S 6 . Veenashri M 7 . Dr. Nagalakshmi M.V.N. 8 . Dr. G. Venkateshwaran 9 . Dr. Gajanethi Swathi Kumari 10 . Dr. E. Muthukumar
TITLE OF INVENTION	ENTREPRENEURSHIP TRAINING AND FACTORS THAT AFFECT THE INTEREST IN ENTREPRENEURSHIP
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	patentpublucation@gmail.com
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APPLICATION STATUS	**Awaiting Request for Examination**

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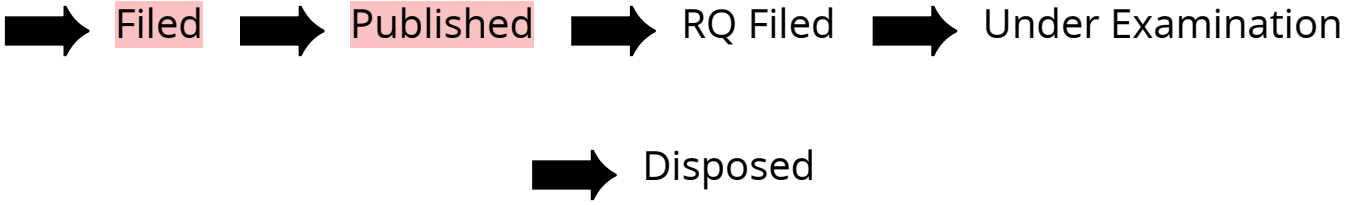

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APPLICATION NUMBER	202441055896
APPLICATION TYPE	ORDINARY APPLICATION
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APPLICANT NAME	1 . Dr. V. Sivakamy 2 . Mrs. P.C.Saranya 3 . Mrs. P.C.Abirami 4 . Dr. K. Balanaga Gurunathan 5 . Dr.Anand Patil 6 . Dr. K Vidhya 7 . Dr. Rajib Bhattacharya 8 . Kothai Reshikesh 9 . Shanker Prabu. M 10 . Dr. Jenesiszodykha V
TITLE OF INVENTION	CYBER RISK MANAGEMENT IN THE INDIAN BANKING INDUSTRY
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	patentpublucation@gmail.com
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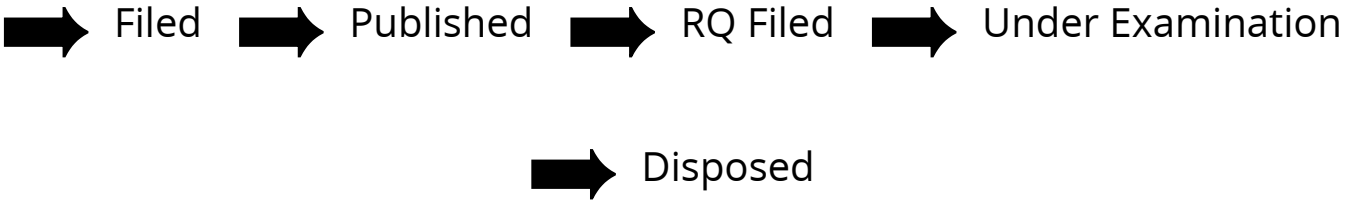

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2	202441057298	TEMP/E-1/66790/2024-CHE	1600	48192	FORM 1	TRANSFORMING PUBLIC SERVICES: A MACHINE LEARNING APPROACH TO CITIZEN ENGAGEMENT IN E-GOVERNANCE

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