

Report on Intellectual Property Rights (IPR's) of Anna University, Chennai (upto 31st December 2020)

Anna university photo

Centre for Intellectual Property Rights (CIPR)

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Intellectual property (IP) refers to creations of the mind such as inventions, literary, artistic works, designs, symbols, names and images. It is necessary to protect these creations in order to enable people to earn recognition or financial benefits. Intellectual property rights (IPRs) have become a central issue in economic development, scientific & technological development, economic co-operation between industrialized and developing countries. However, some people believe that only large companies will get benefits from IPRs. But the truth lies on the fact that commercially profitable ideas or any innovations also emerge from every one of us.

There is apprehension particularly in the educational institutions for registration of IPRs. Faculty members prefer to publish technical papers in scientific journal without knowing that the same can be applied for patent before publication in the scientific journals. In this connection, Centre for Intellectual Property Rights (CIPR), Anna University, Chennai has brought out a “Report on Intellectual Property Rights (IPRs)” for the sixth time to the public to create awareness. In this report, upto December 2020 we had tried to colligate the list of IPR's filed by the faculty members, research scholars and students belongs Anna University. This report will provide a comprehensive list of patents filed and their current status. The report will give an insight of the innovations developed in the respective fields and allow the emerging innovators to understand the white space in the current technology, thus encouraging them to develop their novel ideas.

Dr. M. Kanthababu
Director, CIPR

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1. About Anna University

Anna University was established in 1978 as a unitary type of University. It offers higher education in Engineering, Technology and Allied Sciences relevant to the current and projected needs of the society. Besides promoting research and disseminating knowledge gained therefrom, it fosters cooperation between the academic and industrial communities.

2. About Centre for Intellectual Property Rights (CIPR)

The CIPR, Anna University was established in the year 2005 to create awareness and offer assistance to Academicians, Researchers, Entrepreneurs and Innovators to identify, protect and manage Intellectual Property Rights effectively. The CIPR involved jointly with Tamil Nadu Technology Development and Promotion Centre (TNTDPC) of Confederation of Indian Industries (CII) in conducting many certificates courses on Intellectual Property Rights (IPRs).

CIPR, Anna University, Chennai has been recognized as “Facilitator” for ‘Startups’ by the office of the Indian Patent office, Government of India, New Delhi and established Technology Innovation Support Center (TISC) of World Intellectual Property Office (WIPO) through the Department of Industrial Policy and Promotion (DIPP), Ministry of Commerce & industry, Government of India. CIPR has also established of National Research Development Corporation (NRDC) - Anna University (AU) - Innovation Facilitation Centre (IFC) at CIPR.

Objectives of CIPR

- To promote awareness on IPRs among students, research scholars, research & development establishments, faculties of educational institutions, SMEs, large enterprises, Startups, etc.
- To organize short-term courses, seminars, workshops and conferences on IPRs and related activities.
- To protect Intellectual creations of students, research scholars, faculties, scientists, entrepreneurs, industries and others through a streamlined procedure

to register their patents, trademark, copyrights and others IPRs in an effective manner.

Services of CIPR

i. Patents

CIPR carries out extensive Patent Search using free and paid database. We have expertise and experienced professionals to do patent searches, patent specification drafting, patent claims drafting, patent filings and other related works.

ii. Industrial Design

CIPR carries out search and filing services of Industrial design for shape, configuration, pattern, composition of lines, colours, etc. applied to any product(s).

iii. Trademarks

CIPR carries out trademark search and trademark application filing for logo, symbol, design, image, sound, colour, slogan, smell, word, phrase or combination of these elements.

iv. Copyrights

CIPR assists in copyrights filing related to the original work of literary (like poems, books, etc), artistic (like painting, sculptures, photographs, etc), dramatic, musical work, cinematographic films, sound recording, software programme, etc.

v. Conduct of IPR Awareness Programme and Certificate Courses

The CIPR regularly conducts several Awareness program and Certificate Courses to educate the importance of IPRs to students, research scholars, faculties and scientists of R&D institution, Universities, SMEs and large establishments.

Details of IPRs as on December 2020

(Department / Centre wise)

1. Aerospace Engineering

Sl. No	Name of the Applicant (s)	Name of the Inventor (s)	Title	Application No. & Patent Filed Date	Current Status
1	Registrar, Anna University, Chennai	Dr.K.M.Parammasivam, G. Sivaraj, & S. Senthil Kumar	Aerodynamic drag reduction of a hatch back car using base bleed	3777/CHE/2010 & 10/12/2010	Granted & Ceased
2	Registrar, Anna University, Chennai	Dr.K.M.Parammasivam, G. Sivaraj, & S. Senthil Kumar	Optimization of vortex generator for "sedan" car model for reduction of aerodynamic drag	3778/CHE/2010 & 10/12/2010	Application in Hearing
3	Anna University, Chennai	Dr.K. Senthil Kumar, & A.Mohamed Rasheed	Rotary wing unmanned aircraft system, guidance and control method thereof	5535/CHE/2012 & 31/12/2012	Amended
4	Anna University, Chennai	Dr.K. Senthil Kumar, R. Krishna Kumar, & A. Mohamed Rasheed	Vertical takeoff & horizontal transition unmanned aircraft system guidance & nbsp;and control method thereof	6190/CHE/2013 & 31/12/2013	Awaiting Examination
5	Dr.S.Thanigalarasu, Dharmahiner Singh Chand, & R. Asad Ahmed	Dr. S. Thanigalarasu, Dharmahiner Singh Chand, & R. Asad Ahmed	Method and device for controlling sonic under -expanded jets	3765/CHE/2015 & 22/07/2015	Amended

6	Dr. C. Senthil Kumar, & M. Ramakrishna	Dr. C. Senthil Kumar, & M. Ramakrishna	Saw toothed leading edge delta wings	201641018606 & 31/05/2016	Amended
7	Dr. C. Senthil Kumar, & M. Ramakrishna	Dr. C. Senthil Kumar, & M. Ramakrishna	Sinusoidal toothed leading edge delta wings	201641018605 & 31/05/2016	Amended
8	K. Senthil Kumar, S. Thamarai Selvi, & A. Mohamed Rasheed	K. Senthil Kumar, S. Thamarai Selvi, A. Mohamed Rasheed, C.U. Hari, S. Abdul Jawad, S. Arul, R. Vasantharaj, V. Mathavan, & M. Murthuselvam	An arming and guidance switch for an unmanned aerial vehicle and a method of operating thereof	201841032030 & 29/01/2018	Awaiting Examination
9	A. Saravanakumar	B. Madhankumar, K.Saravanakumar, & R. Souhith	Ground testing apparatus for solar sails	201841031722 & 24/08/2018	Amended
10	S. Thanigaarasu, & K. Rajaguru Nathan	S. Thanigaarasu, & K. Rajaguru Nathan	Aerodynamically designed variable trailing edge serrations for vertical axis wind turbine blades	201841033139 & 04/09/2018	Awaiting Examination
11	S. Thanigaarasu, & K. Rajaguru Nathan	S. Thanigaarasu, & K. Rajaguru Nathan	Aerodynamically shaped feathered winglets for vertical axis wind turbine	201841033159 & 04/09/2018	Amended

12	S. Thanigaiarasu, & S. A. Dawn Pradeeb	S. Thanigaiarasu, & S. A. Dawn Pradeeb	Effect of nozzle rotation on mixing characteristics of subsonic jets	201841033156 & 04/09/2018	FER Issued
13	S. Thanigaiarasu, & S. Venkataramanan	S. Thanigaiarasu & S. Venkataramanan	Vortex generators in Increasing the mixing characteristics of high speed jets	201841033145 & 04/09/2018	Awaiting Examination
14	Kadarkaraipandian Senthil Kumar, Somasundaram Thamarai Selvi, Abdul Samath Mohamed Rasheed, & Murugavelu Muthuselvam	Kadarkaraipandian Senthil Kumar, Somasundaram Thamarai Selvi, Abdul Samath Mohamed Rasheed, & Murugavelu Muthuselvam	Airborne based intelligent autonomous landing system for UAV and a method of operating thereof	201841034795 & 14/09/2018	Awaiting Examination
15	Anna University, Chennai	A. Saravana Kumar, & A. Kaviyarasu	Software defined radio-based ground receiving station system for low earth orbit satellites communication	201941027752 & 11/07/2019	Awaiting Examination
16	K. Senthil Kumar, & S. Thamarai Selvi	K. Senthil Kumar, S. Thamarai Selvi, A. Mohamed Rasheed, & C.U. Hari	Ground object position annotation using standalone on-board embedded system	201841042082 & 08/11/2018	Awaiting Examination
17	K. Senthil Kumar, & S. Thamarai Selvi	K. Senthil Kumar, S. Thamarai Selvi, A. Mohamed Rasheed, & C.U. Hari	Tethered aerial platform	201841042078 & 08/11/2018	Awaiting Examination

2. Applied Science and Technology

Sl. No	Name of the Applicant (s)	Name of the Inventor (s)	Title	Application No. & Patent Filed Date	Current Status
1	S. Kalaiselvam P. Karuppasamy S. Imran Hussain A.Ameelia Roseline	S. Kalaiselvam P. Karuppasamy S. Imran Hussain A.Ameelia Roseline	Antimicrobial air filters for air conditioning applications to prevent the microbes with self-cleaning	201841013810 & 11/04/2018	Amended
2	S.Kalaiselvam	S. Kalaiselvam	Activated carbon hybrid epoxy nanocomposite reinforced with natural fiber for automobile structural members	201841015602 & 25/04/2018	Amended
3	R. Ramakrishnan Noel Jacob Kaleekkal T. Sivakumar & D. Mohan	R. Ramakrishnan Noel Jacob Kaleekkal T. Sivakumar & D. Mohan	Mixed matrix polymeric membrane catalytic reactor for carbohydrate valorization and separation and method thereof	201841027725 & 24/07/2018	Amended
4	Anna University, Chennai	S. Kalaiselvam, P. Karuppasamy, & S. Sivanesan	Laser flash thermal diffusivity analyser for the measurement of thermal properties of solid material	201941010365 & 18/03/2019	FER Issued

3.Bio-Technology

Sl. No	Name of the Applicant (s)	Name of the Inventor (s)	Title	Application No. & Patent Filed Date	Current Status
1	Dr.K. Sankaran, A. Alagumaruthanayagam, & A. R. Pavankumar	Dr.K. Sankaran, A.Alagumaruthanayagam & A. R. Pavankumar	A method to detect the microbial resistance using fluorescence	239/CHE/2009 & 04/02/2009	In order for grant u/s 43, awaiting NBA Approval
2	Registrar, Anna University, Chennai	T. Elavaransan, A.Alagumaruthanayagam & Dr. K.Sankaran	A method to detect bacterial growth and antibacterial resistance based on fluorescence quenching	1891/CHE/2010 & 02/07/2010	Granted
3	Registrar, Anna University, Chennai	Dr. K. Sankaran, & Shruthi Hamsanathan	A process to enhance the sensitivity of human interferon γ detection in elisa using bacterial lipid modification	2569/CHE/2010 & 03/09/2010	Granted & Ceased
4	Registrar, Anna University, Chennai,	Dr. P. Kaliraj, Dr. J. Madhumathi, & Dr. Prince R. Prabhu	Chimeric peptide vaccines for filariasis	1366/CHE/2011 & 20/04/2011	Granted
5	Registrar, Anna University, Chennai,	Dr. P. Kaliraj, Dr. J. Madhumathi, Dr. G. Anugraha, & Dr. Prince R. Prabhu	Peptide immunogens of lymphatic filarial AIT-2 and lymphatic filarial vaccine composition comprising the same	1367/CHE/2011 & 20/04/2011	Granted
6	Registrar, Anna University, Chennai	Dr. P. Kaliraj, Dr. K. Sankaran, Dr. Sharmila Sam, & Dr. I. Christiana	A bacterial lipid modification of a filarial protein to enhance the immune-prophylactic efficacy in animal & humans	2035/CHE/2011 & 15/06/2011	Granted

7	C. Ramachandran, R. Sudha Rani, & Dr. Usha Antony	C. Ramachandran R. Sudha Rani & Dr. Usha Antony	A new method to ensure shelf life enhancement and bio- fortification of idli batter	354/CHE/2014 & 28/01/2014	Awaiting for NBA Approval
8	C. Ramachandran, R. Sudha Rani, S. R. Nivaz, Prince R. Pravhu, & Dr. Usha Antony	C. Ramachandran, R. Sudha Rani, S. R. Nivaz, Prince R. Pravhu, & Dr. Usha Antony	A new method of encapsulation using leguminous protein for food and pharmaceutical applications	6135/CHE/2014 & 05/12/2014	Awaiting Examination
9	C. Ramachandran, R. Sudha Rani, & Dr. Usha Antony	C. Ramachandran, R. Sudha Rani, & Dr. Usha Antony	A new method to incorporate lactobacillus reuteri in millet fermentation as a probiotic for enrichment with vitamin b12	3785/CHE/2014 & 01/08/2014	Awaiting for NBA Approval
10	Dr. K. Sankaran, & T. Elavarasan	Dr. K. Sankaran, & T. Elavarasan	Simple rapid method for estimation of milk protein	1496/CHE/2015 & 24/03/2015	Amended
11	C. Ramachandran, R. Sudha Rani, & Dr. Usha Antony	C. Ramachandran, R. Sudha Rani, & Dr. Usha Antony	Semi-cooked and dried ready-to-cook porridge from processed finger millet (eleusine coracana)	201641040735 & 29/11/2016	Awaiting Examination
12	Sakthi Sugars Ltd, Chennai, & Centre for Biotechnology, Anna University, Chennai,	Arun Balakrishnan, Periyasamy Giridharan, Ram Asrey Vishwakarma, & Panangadan Shanker Narayan Nallankandy	A substituted flurochromenone derivative exhibiting anti-cancer and anti-proliferative properties	PCT/IN2001/ 000156 & 11/09/2001	Application Published
13	Anna University, Chennai	T. Akila G. Padmapriya Y. Anitha Janet Roshni J. Tamlilselvan Nikhil Sangith Mahalakshmi Natarajan Pandiraj Suppuram	Production of L-2-aminobutyrate from pyruvate / citramalate /citraconate by biotransformation and cell	201841037493 & 04/10/2018	Awaiting Examination

14	Indian Institute of Science, Anna University, & Raman Research Institute	Subramanya M, Dinesh Narasimhaiah, SankaranKrishnan, Lakshminarayanan, Vedagiri	Adulterant Detection in Milk Samples	201841048719 & 21/12/2018	Amended
15	S. Ramalingam,	G. Padmapriya, Y. Anitha Janet Roshni, T. Akila, J. Tamilselvan, Pandiraj Suppuram	Production of 2-oxobutanoate using alternative isoleucine biosynthetic pathway	201941000814 & 08/01/2019	Awaiting Examination
16	Anna University, Chennai	S. Ramalingam T. Akila, G. Padmapriya Y. Anitha Janet Roshini & J. Tamilselvan	Process of producing amino acids from its ketoacid by enzyme amino acid dehydrogenases	201941021876 & 03/06/2019	FER Issued

4. Chemistry

Sl. No	Name of the Applicant (s)	Name of the Inventor (s)	Title	Application No. & Patent Filed Date	Current Status
1	Mark Crocker, Rodney Andrews, A. Pandurangan & Dali Qian	Mark Crocker, Rodney Andrews, A. Pandurangan, & Dali Qian	Method for production of germanium nanowires encapsulated within multi-walled carbon nanotubes	US12942396 & 09/11/2009	Granted
2	Dr. A. Pandurangan & S. Chandrakishore	Dr. A. Pandurangan & S. Chandrakishore	Novel catalyst-free self seeded method for the production of C-Si-Ge and nanotubes by CVD	5605/CHE/2014 & 07/11/2014	Granted
3	Research & Development Division, Chennai Petroleum Corporation Limited	Perumal Tamizhdurai, Subramanian Sivasanker, Melcureraj Lavanya, Arunachalam Meenakshsundaram, Raman Krishnamurthy, & Kannan Shanthi	A catalyst composite using mesoporous material supported ionic liquids for isomerization of alkanes and process related thereto	201841003040 & 25/01/2018	Granted

5. Chemical Engineering

Sl. No	Name of the Applicant (s)	Name of the Inventor (s)	Title	Application No. & Patent Filed Date	Current Status
1	Dr. M. Alagar, & S. Devaraju	Dr. M. Alagar, & S. Devaraju	One pot synthesis of novel skeletal modified diamine used as a curative and impact modifier for epoxy resins	3637/CHE/2014 & 25/07/2014	Granted
2	Dr. K.V. Radha, & P. Thyriyalakshmi	Dr. K.V. Radha, & P. Thyriyalakshmi	Synthesis of FMPC and preparation of chitosan – FMPC particles	5144/CHE/2014 & 14/10/2014	Awaiting for Results
3	Dr. K.V. Radha, & V. Thamilselvi	Dr. K.V. Radha, & V. Thamilselvi	Corncob adsorbent for waste water treatment	201641009242 & 17/03/2016	Granted
4	Noel Jacob Kaleekkal, & D. Mohan	Noel Jacob Kaleekkal, & D. Mohan	Method of preparing fouling resistant polyetherimide mixed matrix membranes	201741031660 & 07/09/2017	FER Issued

6. Civil Engineering

Sl. No	Name of the Applicant (s)	Name of the Inventor (s)	Title	Application No. & Patent Filed Date	Current Status
1	B. Dhayalini, & R. Senthil	B. Dhayalini, & R. Senthil	A biodegradable acoustic panel from small millets husk	201741004535 & 08/02/2017	Awaiting for NBA Approval

7. Computer Technology

Sl. No	Name of the Applicant (s)	Name of the Inventor (s)	Title	Application No. & Patent Filed Date	Current Status
1	Anna University, Chennai	Dr. S. Thamarai Selvi, R. Kumar, P. Balakrishnan, K. Rajender, J. S. Swarnapandian, G. Kannan, R. Rajiv, E. Mahendran, & C. A. Prasath	A system and a method to assess the trustworthiness of a resource provider	593/CHE/2007 & 23/03/2007	Granted & Ceased
2	Anna University, Chennai	Dr. S. Thamarai Selvi, R. Kumar, P. Balakrishnan, K. Rajendar, G. Kannan, & R. Rajiv	A system and a method thereof for scheduling and supporting virtual resource management in a grid network	3027/CHE/2010 & 13/10/2010	Granted & Ceased
3	Anna University, Chennai	Dr. S. Thamarai Selvi, K. Senthil Kumar, G. Kannan, & A. Mohamed Rashee	Cloud based control, guidance and management of unmanned aircraft systems	5536/CHE/2012 & 31/12/2012	Amended
4	Mirnos Berthad, Malaysia, & Madras Institute of Technology, Anna University, Chennai	Dr. S. Thamarai Selvi, Mohd Amril Nurman, Mohd Sidek, Mohammad- Fairus, & K. Rajendar	A method and system of extending computing grid resources	PCT/MY2012 /000152 & 28/02/2012	Application Published

8. Computer Science and Engineering

Sl. No	Name of the Applicant (s)	Name of the Inventor (s)	Title	Application No. & Patent Filed Date	Current Status
1	S. Chitrakala	S. Chitrakala	Automatic scene understanding assistive system with refreshable tactile device including voice for visually impaired people	201841031721 & 24/08/2018	FER Issued

9. Crystal Growth

Sl. No	Name of the Applicant (s)	Name of the Inventor (s)	Title	Application No. & Patent Filed Date	Current Status
1	Registrar, Anna University, Chennai	Dr. J. Kumar, Dr. K. Sankaran, M. Jaya Prakasan, & T. Dhinesh Kumar	A process to characterize biochemical reactions using sensor instrumentation based on capacitance and conductance change	3064/CHE/2010 & 18/10/2010	Granted & Ceased
2	K. Thanigal Arul, S. Narayana Kalkura, J. Ramana Ramya, & E. Manikandan	K. Thanigal Arul, S. Narayana Kalkura, J. Ramana Ramya, & E. Manikandan	Bionanocomposite coating and its method thereof	201741031668 & 07/09/2017	Awaiting Examination
3	Dr. J. Kumar, & C. Bagavath	Dr. J. Kumar, & C. Bagavath	Disposable nitric oxide sensor construction using gallium nitride nanowires and its method thereof	201741043550 & 05/12/2017	Granted

4	Shubra Singh, Suchita, & Vavilapalli Durga Sankar	Shubra Singh, Suchita, & Vavilapalli Durga Sankar	Method for developing Ca ₂ Fe ₂ O ₅ Nanoparticles for Enhanced Photocatalysis under direct Sunlight	201841028665 & 31/07/2018	Granted
5	Shubra Singh, & Vavilapalli Durga Sankar	Shubra Singh, & Vavilapalli Durga Sankar	Method for synthesis of sillenite bi ₁₂ feo ₂₀ single crystals	201841028670 & 31/07/2018	Amended
6	D. Arivuoli & Preethi Ramadoss	D. Arivuoli & Preethi Ramadoss	Biodegradable sanitary napkin for personal and environmental hygiene and method thereof	201841044636 & 27/11/2018	Granted
7	Anna University, Chennai	D. Arivuoli & Preethi Ramadoss	Flexible and biodegradable polymer composite for sensing sweat glucose	201941048041 & 25/11/2019	Awaiting Examination

10. Environmental Studies

Sl. No	Name of the Applicant (s)	Name of the Inventor (s)	Title	Application No. & Patent Filed Date	Current Status
1	Anna University, Chennai	Dr.N.Vasudevan	A process for the biological treatment of an industrial effluent	1675/CHE/2006 & 13/09/2006	Granted & Ceased
2	Dr.N.Vasudevan, & R. Kanimozhi	Dr.N.Vasudevan, & R. Kanimozhi	A process for the treatment of distillery waste water using aerobic sequencing batch reactor	587/CHE/2009 & 16/03/2009	Granted & Ceased
3	Dr.N.Vasudevan, & R. Kanimozhi	Dr.N.Vasudevan, & R. Kanimozhi	A synthetic carrier for biofilm attachment for wastewater treatment	711/CHE/2009 & 30/03/2009	Granted & Ceased
4	Dr.N. Vasudevan, & Veenagayathri	Dr.N. Vasudevan, & Veenagayathri	A method for biodegradation of chlorophenols by a halotolerant bacterial consortium under saline conditions	1164/CHE/2010 & 27/04/2010	Granted & Ceased

5	Dr.N. Vasudevan, & V. R. Manoj	Dr.N. Vasudevan, & V. R. Manoj	A method for the treatment and recirculation of aquaculture wastewater	1645/CHE/2010 & 14/06/2010	Granted
6	Dr. S. Kanmani, & V. Preethi	Dr. S. Kanmani, & V. Preethi	Gas-phase recovery of hydrogen from hydrogen sulphide using photocatalysis	870/CHE/2015 & 24/02/2015	Granted
7	Dr. N. Vasudevan & G. Sunantha	Dr. N. Vasudevan & G. Sunantha	Method for detecting PFOA and PFOS in water samples using Genetically Engineering Bacterial Biosensor	201841015253 & 23/04/2018	Awaiting Examination
8	Anna University, Chennai	N. Vasudevan & A. Jayshree	A method to manufacture copper nanoparticles by aqua-chemical reduction of copper based salts	201941013817 & 05/04/2019	FER Issued
9	Anna University, Chennai	N. Vasudevan & A. Jayshree	A method for detection of phthalate esters in drinking water and beverages	201941042605 & 21/10/2019	FER Issued
10	Anna University, Chennai	Dr.S. Kanmani & Kaviya Piriyan	A scalable compact Uv-Led photo catalytic reactor	201941030202 & 26/07/2019	Awaiting Examination
11	N. Vasudeven, O. Greeshma	N. Vasudeven, O. Greeshma	A process for treating pesticide contaminated water	201941030196 & 26/07/2019	Awaiting Examination
12	N. Vasudeven, O. Greeshma	N. Vasudeven, O. Greeshma	A novel and comprehensive process for production of biogas and fuel oil from used feminine sanitary napkins (UFSN)	201941039118 & 27/09/2019	Awaiting Examination
13	Anna University, Chennai	N.Vasudevan & R. K. Brinda	Method for mitigation of methane released from agricultural lands	202041020116 & 13/05/2020	Awaiting Examination
14	Anna University, Chennai	N.Vasudevan & K. Ramya	Two stage process for treating pyrethroid pesticide wastewater using halotolerant bacteria	202041019235 & 06/05/2020	Awaiting Examination

15	Anna University, Chennai	S. Kanmani & R. Chandra Devi	Hyper cross-linked iron-quercetin-3-malonylglucoside in textile wastewater treatment	202041025020 & 15/06/2020	Awaiting Examination
16	Anna University, Chennai	Dr.K. Palanivelu & V. Krishnaveni	Method for producing glycerol carbonate by direct carbonation reaction of glycerol and co2 presence of heterogeneous catalyst	202041028146 & 02/07/2020	Granted
17	Anna University, Chennai	S. Narayana Kalkura & P. Sandeep Eswaran	Lyophilized nano – hydroxyapatite a bio friendly adsorbent for fluoride adsorption	202041028142 & 02/07/2020	FER Issued
18	Anna University, Chennai & L&T Construction Limited	S. Kanmani S. Amal Raj, S. Sowndarya, S. Jagannathan Mohamed Salah & P. Ganesh Kumar	Multi-zone attached growth batch bio-reactor & method of biological treatment of domestic wastewater	202041007025 & 19/02/2020	Granted
19	Anna University, Chennai & L&T Construction Limited	S. Kanmani S. Amal Raj, S. Sowndarya, S. Jagannathan Mohamed Salah & P. Ganesh Kumar	Multi-zone attached growth batch bio-reactor & method of biological treatment of domestic wastewater	PCT/IN2020/ 050548 & 19/06/2020	Applied

11. Electrical & Electronics Engineering

Sl. No	Name of the Applicant (s)	Name of the Inventor (s)	Title	Application No. & Patent Filed Date	Current Status
1	Anna University, Chennai	Dr. B. Umamaheswari, & J. Kavitha	Homopolar axial flux hub stepper motor	5589/CHE/2013 & 04/12/2013	Amended

12. Electronics & Communication Engineering

Sl. No	Name of the Applicant (s)	Name of the Inventor (s)	Title	Application No. & Patent Filed Date	Current Status
1	Registrar, Anna University, Chennai	Dr.K. Malathi, M.Gulam Nabi Alsath, & A. K. Shrivastav	Dual band notched dielectric resonator reflect array for C/X band	1374/CHE/2012 & 04/04/2012	Granted
2	Dr. K. Malathi, Aswathy K Sarma, A. Henridass, C. Raviteja, V. Sangeetha, & M. Gulam Nabi Alsath	Dr.K. Malathi, Aswathy K Sarma, A. Henridass, C. Raviteja, V. Sangeetha, & M. Gulam Nabi Alsath	Mutual coupling reduction in MIMO antenna with serpentine type structure resonator	2660/CHE/2014 & 30/05/2014	Application in Hearing
3	Dr. K. Malathi, & M. Gulam Nabi Alsath	Dr.K. Malathi, & M. Gulam Nabi Alsath	Shared aperture multi-service design for automotive communications	6413/CHE/2014 & 19/12/2014	Amended
4	Dr.K. Malathi, K .P. Jayaram, & M. Gulam Nabi Alsath	Dr.K. Malathi, K .P. Jayaram, & M. Gulam Nabi Alsath	A UHF RFID reader antenna integrated with near field and far field operations	5336/CHE/2015 & 06/10/2015	Granted
5	Dr.K. Malathi, M. Gulam Nabi Alsath, & Livya Lawrance	Dr.K. Malathi, M. Gulam Nabi Alsath, & Livya Lawrance	A device and method for fabrication of ultra-wide band micro strip grid array antenna (GAA)	5337/CHE/2015 & 06/10/2015	Amended
6	Dr.K. Malathi, R. Vimal Samsingh, & S. Esther Florence	Dr.K. Malathi, R. Vimal Samsingh, & S. Esther Florence	Method and apparatus for non-destructive testing of composites using planar sensor	5338/CHE/2015 & 06/10/2015	Amended

7	Dr.K. Malathi, S. Esther Florence, & R. Vimal Samsingh	Dr. K. Malathi, S. Esther Florence, & R. Vimal Samsingh	A method to fully integrate multi-layer woven electro-textile patch antenna	5620/CHE/2015 & 19/10/2015	Amended
8	Dr.K. Malathi, S. Ramparabhu, & M. Balaji	Dr.K. Malathi, S. Ramparabhu, & M. Balaji	A method and device for a passive reconfigurable frequency selective surface	5621/CHE/2015 & 19/10/2015	Amended
9	Dr.K. Malathi, & S. Ramprabhu	Dr.K. Malathi, & S. Ramprabhu	Polarization independent reconfigurable 3D frequency selective surface and method thereof	201641032341 & 22/09/2016	Amended
10	Dr.K. Malathi, & K. P. Jayaram	Dr.K. Malathi, & K. P. Jayaram	A multiservice chipless RFIP transponder	201641032342 & 22/09/2016	Application in Hearing
11	Dr.K. Malathi, R. Vimal Samsingh, S. Sangeetha, P. Yogeshwari, & Saffrine Kingsly	Dr.K. Malathi, R. Vimal Samsingh, S. Sangeetha, P. Yogeshwari, & Saffrine Kingsly	Electromagnetic nondestructive material characterization of dielectrics deploying planar EBG based transmission line sensor	201641032343 & 22/09/2016	Amended
12	Dr.K. Malathi, & K. P. Jayaram	Dr.K. Malathi, & K. P. Jayaram	A magnetic coupling UHF near field RFID reader antenna deploying CSRR elements	201641032344 & 22/09/2016	Amended
13	Dr.K. Malathi, V. Sangeetha, Saffrine Kingsly, P. Yogeshwari & S. Sangeetha	Dr.K. Malathi, V. Sangeetha, Saffrine Kingsly, P. Yogeshwari & S. Sangeetha	Planar quad-band rat-race coupler with spurious pass-band suppression	201641032345 & 22/09/2016	Amended

14	Dr. K. Malathi, P. Yogeshwari P. Sandeep Kumar Saffrine Kingsly, & S. Sangeetha	Dr.K. Malathi, P. Yogeshwari P. Sandeep Kumar Saffrine Kingsly, & S. Sangeetha	Dual mode polarization diverse antenna array	201641024647 & 19/07/2016	Amended
15	Dr. K. Malathi, & N. Rajesh	Dr.K. Malathi, & N. Rajesh	Integrated VIVALDI antenna with switchable radiation pattern	201741008376 & 10/03/2017	Amended
16	Dr.K. Malathi, P. Sandeep Kumar, E. Lavanya, P. Yogeshwari, S. Sangeetha, & Saffrine Kingsly	Dr.K. Malathi, P. Sandeep Kumar, E. Lavanya, P. Yogeshwari, S. Sangeetha, & Saffrine Kingsly	Rhombic compound reconfigurable antenna	201741008383 & 10/03/2017	Application in Hearing
17	Dr.K. Malathi E. Lavanya P. Yogeshwari M. Gulam Nabi Alsath, P. Sandeep Kumar Saffrine Kingsly, S. Sangeetha & Y.V. Ramana Rao	Dr.K. Malathi E. Lavanya P. Yogeshwari M. Gulam Nabi Alsath, P. Sandeep Kumar Saffrine Kingsly, S. Sangeetha & Y.V. Ramana Rao	Compound reconfigurable antenna array	201741028261 & 09/08/2017	Amended
18	Dr.K. Malathi R. Vimal Samsingh & S. Esther Florence	Dr.K. Malathi R. Vimal Samsingh & S. Esther Florence	Planar microwave sensor for fracture detection in human bones	201741029503 & 21/08/2017	FER Issued

19	M. Gulam Nabi Alsath, Saffrine Kingsly, Dr.K.Malathi B. Sridhar, P. Sandeep Kumar, V. Sangeetha, K. Indhumathi, N. Rajesh, S. Ramprabhu, Jayaram Kizhekke Pakkathillam, S. Sangeeth P. Yogeshwari & Y. V. Ramana Rao	M. Gulam Nabi Alsath, Saffrine Kingsly, Dr.K.Malathi B. Sridhar, P. Sandeep Kumar, V. Sangeetha, K. Indhumathi, N. Rajesh, S. Ramprabhu, Jayaram Kizhekke Pakkathillam, S. Sangeeth P. Yogeshwari & Y. V. Ramana Rao	A method to achieve compound reconfiguration in microstrip filters and the device thereof	201741029509 & 21/08/2017	FER Issued
20	M. Gulam Nabi Alsath, S. Sangeetha Dr.K. Malathi K. Indhumathi, V. Sangeetha, B.Sridhar, P. Sandeep Kumar, S. Ramprabhu, N.Rajesh, Jayaram Kizhekke Pakkathillam, Saffrine Kingsly, P. Yogeshwari & Y. V. Ramana Rao	M. Gulam Nabi Alsath, S. Sangeetha Dr.K. Malathi K. Indhumathi, V. Sangeetha, B.Sridhar, P. Sandeep Kumar, S. Ramprabhu, N.Rajesh, Jayaram Kizhekke Pakkathillam, Saffrine Kingsly, P. Yogeshwari & Y. V. Ramana Rao	A design to achieve multi-band operation in miniaturized antennas and device thereof	201741029510 & 21/08/2017	Amended

21	S. Sangeetha Dr.K. Malathi S. Padmathilagam, M. Gulam Nabi Alsath, Saffrine Kingsly, P. Yogeshwari T. Deepa, S. Ramprabhu, N. Rajesh, B. Sridhar, & K. Indhumathi	S. Sangeetha Dr.K. Malathi S. Padmathilagam, M. Gulam Nabi Alsath, Saffrine Kingsly, P. Yogeshwari T. Deepa, S. Ramprabhu, N. Rajesh, B. Sridhar, & K. Indhumathi	Multiband mimo antenna for tablet applications	201841001232 & 11/01/2018	Amended
22	M.A.Bhagyaveni & A. Sharfudeen	M.A.Bhagyaveni & A. Sharfudeen	A method and a system for virtual pilot based channel estimation	201841005700 & 15/02/2018	FER Issued
23	Dr.K. Malathi, Thipparaju Ram Rao, Sandeep Kumar Palaniswamy, Saffrine Kingsly, Mohammed Gulam Nabi Alsath, Deepa Thangarasu, Padmathilagam Sambandam, Sangeetha Subbaraj & Yogeshwari Panneer Selvam	Dr.K. Malathi, Thipparaju Ram Rao, Sandeep Kumar Palaniswamy, Saffrine Kingsly, Mohammed Gulam Nabi Alsath, Deepa Thangarasu, Padmathilagam Sambandam, Sangeetha Subbaraj & Yogeshwari Panneer Selvam	Multiband reconfigurable microwave filtenna	US15/904,323 & 24/02/2018	Granted
24	M. A. Bhagyaveni, Preethi .K & Jeevitha	M. A. Bhagyaveni, Preethi .K, & Jeevitha	An IOT-based handheld pregnancy monitoring device	201841009482 & 15/03/2018	Amended

25	M. A. Bhagyaveni, S. Rahmath Noor Nathira, & R. Ann Caroline Jenifer	M. A. Bhagyaveni, S. Rahmath Noor Nathira, & R. Ann Caroline Jenifer	A method for low complex receiver decoding of downlink noma system for future 5g wireless networks	201841014728 & 18/04/2018	Amended
26	Dr.K. Malathi, Saffrine Kingsly, P. Sandeep Kumar, M. Gulam Nabi Alsath, T.Deepa, S, Sangeetha, P. Yogeshwari, S. Ramprabhu, & S.Padmathilagam	Dr.K. Malathi, Saffrine Kingsly, P. Sandeep Kumar, M. Gulam Nabi Alsath, T.Deepa, S, Sangeetha, P. Yogeshwari, S. Ramprabhu, & S.Padmathilagam	Tunable band notched Filtenna	201841021702 & 11/06/2018	Awaiting Examination
27	Dr.K. Malathi R. Vimal Samsingh & S.Esther Florence	Dr.K. Malathi R. Vimal Samsingh & S. Esther Florence	Microstrip antenna based flexible sensor for fracture detection	201841021701 & 11/06/2018	Amended
28	Endhi Ram Innovaions LLP	Dr.K. Malathi P. Sandeep Kumar S. Sangeetha M. Gulam Nabi Alsath, Rama RaoThipparaju, Padmathilagam Sambandam, Saffrine Kingsly, P. Yogeshwari & Deepa Thangarasu	Multiband folded antenna for tablet computers	201841039028 & 15/10/2018	Amended
29	Anna University, Chennai	S. Poonguzhali, & Neela Harish	A hand gesture recognition system for speech impaired people and a method thereof	201941040877 & 10/10/2019	Awaiting Examination

30	Anna University, Chennai	S. Poonguzhali, P. Ravichandran, M. Sasikala & S. Dinesh	A Suture force measurement system for surgical procedures	202041023617 & 05/06/2020	Awaiting Examination
31	P. Sakthivel, Sridhar Udayakumar, Manjula Pattnaik, Balachandra Pattanaik, S. Palaniyappan, & Shikha Maheshwari,	P. Sakthivel, Sridhar Udayakumar, Manjula Pattnaik, Balachandra Pattanaik, S. Palaniyappan, & Shikha Maheshwari,	Method for detecting the malpractice in online examinations by motion detection	202041032422 & 29/07/2020	Awaiting Examination

13. Electronics Engineering

Sl. No	Name of the Applicant (s)	Name of the Inventor (s)	Title	Application No. & Patent Filed Date	Current Status
1	Tata Consultancy Services, & Anna University, Chennai	Behram Sethna, Dr. Mala John, Prasath Palaniappan, & Sumitira Ganapathi	A system and method for classification of moving object during video surveillance	2162/MUM/2010 & 29/07/2010	Granted
2	Tata Consultancy Services & Anna University, Chennai	Behram Sethna, Dr. Mala John, Prasath Palaniappan, & Sumitira Ganapathi	System and method for classification of moving object during video surveillance	JP2012033152 & 20/06/2011	Granted

3	Tata Consultancy Services & Anna University, Chennai	Behram Sethna, Dr. Mala John, Prasath Palaniappan, & Sumithra Ganapathi	A system and method for classification of moving object during video surveillance	EP11169344A & 09/06/2011	Granted
4	Tata Consultancy Services & Anna University, Chennai	Dr. Mala John, Prasath Palaniappan, & Sumitira Ganapathi	A system and method for classification of moving object during video surveillance	CN102346855 & 21/06/2011	Granted
5	Tata Consultancy Services, & Anna University, Chennai	Behram Sethna, Dr. Mala John, Prasath Palaniappan, & Sumitira Ganapathi	System and method for classification of moving object during video surveillance	US 13/194,706 & 29/07/2011	Granted

14. Food Technology

Sl. No	Name of the Applicant (s)	Name of the Inventor (s)	Title	Application No. & Patent Filed Date	Current Status
1	Anna University, Chennai	M. Sukumar, Maria Jenita, U. Lalitha Priya, V. Renuka	Formulation of stable edible oil by incorporating microencapsulated natural polyphenols	201941043744 & 29/10/2019	Awaiting Examination

14. Geology

Sl. No	Name of the Applicant (s)	Name of the Inventor (s)	Title	Application No. & Patent Filed Date	Current Status
1	Anna University, Chennai	L. Elango, V. K. Haritha & P. Anandharuban	Ground water recharge system using soil ventilation technique	202041019232 & 06/05/2020	Awaiting Examination

15. Information Science and Technology

Sl. No	Name of the Applicant (s)	Name of the Inventor (s)	Title	Application No. & Patent Filed Date	Current Status
1	R. Muthuraj	R. Muthuraj	Crime evidence provider cum help seeker	1733/CHE/2013 & 19/04/2013	Amended

16. Instrumentation Engineering

Sl. No	Name of the Applicant (s)	Name of the Inventor (s)	Title	Application No. & Patent Filed Date	Current Status
1	K. Kamalanand, & A. Paramasivam	A. Paramasivam, K. Kamalanand, C. Emmanuel & Dr. P. Mannar Jawahar	An apparatus for generation of gastric electric waveforms in normal and abnormal conditions	201841033641 & 07/09/2018	Amended
2	Anna University, Chennai	T. Thyagarajan, Sabitha Ramakrishnan, & G. Anand	Automated external defibrillator system with intelligent ECG detection and automatic vernacular language assistance	201941011910 & 27/03/2019	Awaiting Examination
3	Anna University, Chennai	Dr. K. Kamalanand, A. Paramasivam, A. Bakiya, C. Emmanuel, K. Ravindranath & Dr. P. Mannar Jawahar	A Signal generating device for calibration of electromyogram (EMG) acquisition devices and a method thereof	202041029694 & 13/07/2020	Awaiting Examination
4	Anna University, Chennai	K. Kamalanand, A. Paramasivam, V. Rajinikanath, C. Emmanuel, K. Ravindranath & Dr. P. Mannar Jawahar	A galvanic skin response (GSR) signal generating device and method for GSR waveforms recording system	202041029695 & 13/07/2020	Awaiting Examination

5	Anna University, Chennai	K. Kamalanand, A. Paramasivam, S. Srinivasan, & R. L. J. De Britto	A pneumatic decompression therapeutic device for treatment of localized edema in patients with Lymphatic filariasis	202041033301 & 04/08/2020	Awaiting Examination
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17. Manufacturing Engineering

Sl. No	Name of the Applicant (s)	Name of the Inventor (s)	Title	Application No. & Patent Filed Date	Current Status
1	Anna University, Chennai & Department of Atomic Energy, Mumbai	Dr. M. Kanthababu, Dr. S. HosiminThilagar, V. Vidyaa, Dr. S. Gowri, Dr. R. Balasubramaniam, Prabhat Ranjan, & Debanik Roy	Mechanical grippers for handling plurality of micro components	201641005129 & 15/02/2016	Amended
2	Dr. M. Kanthababu, Dr. S. Gowri, & M. Venkateshwaran	Dr. M. Kanthababu, Dr. S. Gowri, & M. Venkateshwaran	Focusing nozzle condition monitoring system of abrasive water jet machine comprising accelerometer	201641018235 & 27/05/2016	Amended
3	Dr. M. Kanthababu, Dr. S. Gowri, & M. Venkateshwaran	Dr. M. Kanthababu, Dr. S. Gowri, & M. Venkateshwaran	Focusing nozzle condition monitoring unit of abrasive water jet machine comprising sound sensor	201641018236 & 27/05/2016	Amended
4	Dr. M. Kanthababu, V. Mohan Kumar, V. Sailesh, & G. Anuradha	Dr. M. Kanthababu, V. Mohan Kumar, V. Sailesh, & G. Anuradha	Smart seat belt system	201641020717 & 17/06/2016	Amended

5	Dr. M. Kanthababu, & R. Giri	Dr. M. Kanthababu, & R. Giri	A method for operating optimal assembly sequence in an indexing table using genetic algorithm	201741012118 & 04/04/2017	Amended
6	Dr. M. Kanthababu, Dr. S. Gowri, R. Prabhakaran, K. R. Sunilkumar, & M.S. Ajmal Deen Ali	Dr. M. Kanthababu, Dr. S. Gowri, R. Prabhakaran, K. R. Sunilkumar, & M.S. Ajmal Deen Ali	Condition monitoring system for focusing nozzle wear in abrasive waterjet machine comprising acoustic memission sensor	201741016668 & 12/05/2017	Amended
7	Dr. M. Kanthababu, Dr. S. Gowri, R. Prabhakaran, K. R. Sunilkumar, & M.S. Ajmal Deen Ali	Dr. M. Kanthababu, Dr. S. Gowri, R. Prabhakaran, K. R. Sunilkumar, & M.S. Ajmal Deen Ali	Condition monitoring system for focusing nozzle wear in abrasive waterjet machine comprising cutting force dynamometer	201741016669 & 12/05/2017	Amended
8	Dr. M. Kanthababu, & V. Vidyaa	Dr. M. Kanthababu, & V. Vidyaa	Fatigue testing machine for mechanical microgrippers	201741046617 & 26/12/2017	Amended
9	Dr. M. Kanthababu, & V. Vidyaa	Dr. M. Kanthababu, & V. Vidyaa	Micro arc welding machine	201741046610 & 26/12/2017	Amended
10	Dr. M. Kanthababu,	Dr. M. Kanthababu, S. Anish Kumar, M. S. Ajmal Deen Ali, & R. Madhumathi	lot enabled online condition monitoring of the exhaust gas emission system of the automobiles using	201741046614 & 26/12/2017	Amended
11	Dr. M. Kanthababu	Dr. M. Kanthababu, K. R. Sunil Kumar & A. Sarath Kumar	IOT enabled tool wear condition monitoring system for CNC turning comprising sound sensor	201841022038 & 13/06/2018	Amended
12	Dr. M. Kanthababu	Dr. M. Kanthababu, & K. R. Sunil Kumar	IOT enabled tool wear condition monitoring system for CNC turning comprising acoustic emission sensor	201841022047 & 13/06/2018	Amended

13	Dr. M. Kanthababu	Dr. M. Kanthababu, & K. R. Sunil Kumar	IOT enabled tool wear condition monitoring system for CNC tuning comprising Accelerometer sensor	201841022035 & 13/06/2018	Amended
14	Dr. M. Kanthababu	Dr. M. Kanthababu, & K. R. Sunil Kumar	IOT enabled tool wear condition monitoring system for CNC tuning comprising multiple sensors	201841022044 & 13/06/2018	Amended
15	Anna University, Chennai	Dr. M. Kanthababu S. Ganeshmani A. Jeeva S. Kathiresan & M. Sabarinath	A vehicle speed monitoring and controlling system using geofencing technology and a method thereof	202041025876 & 19/06/2020	Awaiting Examination
16	Anna University, Chennai	Dr. M. Kanthababu, A. Agnes Meritta Steffy, G.Praveen Kumar, R.S. Subashini	A system for automatic detection of vehicular accidents and a method thereof	202041025878 & 19/06/2020	Awaiting Examination
17	Anna University, Chennai	Dr. M. Kanthababu Pradeepa Barkave K Swarna Latha G Kaushik R Joelken Nithilan Baskar	A system for monitoring exhaust of the vehicle based on IOT and a method thereof	202041025872 & 19/06/2020	Awaiting Examination

18. Mechanical Engineering

Sl. No	Name of the Applicant (s)	Name of the Inventor (s)	Title	Application No. & Patent Filed Date	Current Status
1	Indian Institute of Technology Madras, Chennai	Dr. R. Saravanan	A bubble pumps absorption cooler	1009/MAS/1998 & 12/05/1998	Granted & Ceased
2	Dr.D.Mohan Lal	Dr.D.Mohan Lal & D.B. Jabaraj	A mixture of refrigerants	941/CHE/2005 & 14/07/2005	Granted & Ceased
3	Dr. N. V. Mahalakshmi, & R. Karthikeyan	Dr. N. V. Mahalakshmi, & R. Karthikeyan	Turpentine blend composition with diesel oil	1951/CHE/2005 & 29/12/2005	Granted & Ceased
4	The Director General, Defence Research & Development Organization (DRDO), New Delhi	Annappan Vinayagam, Pallikonada Lakshmanan, Sathyanarayanan, & Dr.N.V Mahalakshmi	Flow straightener-throttle for fan testing rig	3376/DEL/2005 & 15/12/2005	Granted
5	Dr. N.V. Mahalakshmi, & Dr.P.K. Devan	Dr. N.V. Mahalakshmi, & Dr. P.K. Devan	New poon oil composition-diesel blend as alternative fuel for diesel engine	2279/CHE/2007 & 10/10/2007	Granted & Ceased
6	Dr. D. Sangeetha, & Swaminathan Elamathi	Dr. D. Sangeetha, & Swaminathan Elamathi	A process for preparation of sulphonated polymer membrane	2734/CHE/2008 & 07/11/2008	Granted & Ceased
7	Anna University, Chennai & University of Hyderabad	Dr. A.K. Padmanabhan, Ghanashyam Krishna Mamidipudi, Sri rama Narasimha, & Kiran Mangalampalli	Non-stoichiometric titanium nitride films	PCT/IN2008/000789 & 27/11/2008	Application Published

8	Anna University, Chennai & University of Hyderabad	A.K.Padmanabhan, Ghanashyam Krishna Mamidipudi, Sri rama Narasimha, & Kiran Mangalampalli	Non-stoichiometric titanium nitride films	US8888965B2 & 27/11/2008	Granted
9	Anna University, Chennai & University of Hyderabad	A.K.Padmanabhan, Ghanashyam Krishna Mamidipudi, Sri rama Narasimha, & Kiran Mangalampalli	Non-stoichiometric titanium nitride films	EP2222887B1 & 27/11/2008	Granted
10	Anna University, Chennai & University of Hyderabad	A.K.Padmanabhan, Ghanashyam Krishna Mamidipudi, Sri rama Narasimha, & Kiran Mangalampalli	Non-stoichiometric titanium nitride films	2952/CHENP/2010 & 19.05.2010	Granted & Ceased
11	Dr. D. Sangeetha, Santhanam Senthil Kumar, Srinivasan Guhan, & Lakshmanan Babu	Dr. D. Sangeetha, Santhanam Senthil Kumar, Srinivasan Guhan, & Lakshmanan Babu	Design and development of a proton exchange membrane fuel cell stack	1544/CHE/2010 & 03/06/2010	Granted
12	Registrar, Anna University, Chennai	Dr.D.Sangeetha, & A. Sivasankaran	A method of performance of a cation exchange membrane in a microbial fuel cell to generate electricity	321/CHE/2011 & 03/02/2011	Amended
13	Registrar, Anna University, Chennai	Dr. D. Sangeetha, & R. Vinodh	A novel anion exchange membrane for fuel cell application	580/CHE/2011 & 28/02/2011	Application in Hearing
14	Dr. K.Shanmuga Sundaram & S.Rajiv	Dr. K.Shanmuga Sundaram & S.Rajiv	Fabrication of Electromagnetic forming machine	2280/CHE/2012 & 07/06/2012	Granted

15	Dr. S. Madhavan, Dr. S. Balasivandha Prabu, & Dr. K.A. Padmanabhan	Dr. S. Madhavan, Dr. S. Balasivandha Prabu, & Dr. K.A. Padmanabhan	A sintered in-situ Titanium diboride ceramic cutting tool and method of making the same	2503/CHE/2012 & 18/06/2012	Amended
16	Registrar, Anna University, Chennai	Dr. S. Madhavan, Dr. S. Balasivandha Prabu, Dr. K.A. Padmanabhan & Dr. L. Karunamoorthy	A resinod bonded in situ TIB2 based ceramic grinding wheel and method of making the same	3494/CHE/2013 & 02/08/2013	Amended
17	University of Hyderabad, & Anna University, Chennai	Dr. S. Madhavan, Dr. S. Balasivandha Prabu, & Dr. K.A. Padmanabhan	Sintered in-situ titanium carbideBased Boronized ceramic cutting tool and method of making the same	2506/CHE/2014 & 20/05/2014	Application in Hearing
18	Dr. D.Sangeetha, & Ayyaru Sivasankaran	Dr. D.Sangeetha, & Ayyaru Sivasankaran	Sulphonated polyether –ether-ketone/ sulphonated tio2 composite as proton exchange membrane for microbial fuel cell	3031/CHE/2014 & 23/06/2014	Granted
19	R.Velraj	R.Velraj	A novel two mode solar PV operated vapour compression system integrated with cool thermal storage	2459/CHE/2015 & 15/11/2015	Amended
20	DR. R.Velraj	Dr. R.Velraj & V. Gayathri	Passive Cooled PCM integrated high efficient solar PV system	2458/CHE/2015 & 15/11/2015	Amended
21	K. Vigneshwaran, & A. Sureshkumar	K. Vigneshwaran, & A. Sureshkumar	Footboard accident prevention system	201641024483 & 18/07/2016	Amended
22	Dr. R.Velraj & V. Gayathri	Dr. R.Velraj & V. Gayathri	Optimization of operational parameters of system components in compressed air storage system	201841002260 & 19/01/2018	FER Issued

23	Dr. R.Velraj & V. Gayathri	Dr. R.Velraj & V. Gayathri	Harnessing energy from nature/ocean/large water bodies for the operation of compressed air energy storage system integrate with renewable energy sources for power generation	201841002241 & 19/01/2018	Granted
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19. Medical Electronics

Sl. No	Name of the Applicant (s)	Name of the Inventor (s)	Title	Application No. & Patent Filed Date	Current Status
1	Dr. G. Ravindran, & S. Shenbaga Devi	Dr. G. Ravindran, & S. Shenbaga Devi	Hystero electrical activating mapping	60/MAS/2001 & 23/01/2001	Granted
2	Anna University, Chennai	Dr.S.Shenbaga Devi, Ronnie Jacob George, & Parveen Sen	Visual acuity computation using sweep vep	201941004031 & 01/02/2019	Awaiting Examination

20. Physics

Sl. No	Name of the Applicant (s)	Name of the Inventor (s)	Title	Application No. & Patent Filed Date	Current Status
1	Anna University, Chennai	M. Chitra & I. Davis Jacob	Method of growing metal oxide micro particles on pencil graphite as a binder free electrode for a coaxial asymmetric super capacitor(Casc)&method for fabricating the same	201941046038 & 13/11/2019	Amended

21. Production Technology

Sl. No	Name of the Applicant (s)	Name of the Inventor (s)	Title	Application No. & Patent Filed Date	Current Status
1	Indian Institute of Technology Madras, Chennai	Dr. T. Subramaniam Sampath Kumar, Dr. Sekharipuram Krishnamoorthy Seshadri, & Arjunan Siddharthan	A composition containing nanophase calcium deficient hydroxyapatite with Mg, Sr and Si synthesized from egg shell by microwave processing	848/CHE/2006 & 15/05/2006	Granted
2	A.J.D Nanthakumar, & J. Jancirani	A.J.D Nanthakumar, & J. Jancirani	A real time adaptable damper	201741036049 & 11/10/2017	Amended
3	J. Jancirani A. Sangeet Sahaya Jeyangel, & G. Anandraj	J. Jancirani A. Sangeet Sahaya Jeyangel, & G. Anandraj	Air curtain side skirt for reducing underbody drag	201841001033 & 10/01/2018	Awaiting Examination
4	A. Rajadurai, & Suresh Patil	A. Rajadurai, & Suresh Patil	Chlorine-doped tin monoxide the p-type transparent conducting particles and manufacturing process	201841028671 & 31/07/2018	Awaiting Examination
5	J .Jancirani, A.Sangeet Sahaya Jeyangel, & G.Anandraj	J .Jancirani, A.Sangeet Sahaya Jeyangel, & G. Anandraj	Conduit side skirt for underbody drag reduction	201841039705 & 22/10/2018	Amended

22. Textile Technology

Sl. No	Name of the Applicant (s)	Name of the Inventor (s)	Title	Application No. & Patent Filed Date	Current Status
1	Muthu Paiyan Tamil Selvan, & Krishnan Raghunathan	Muthu Paiyan Tamil Selvan, & Krishnan Raghunathan	Process for categorization of fibres with respect to their physical properties along with existing carded cotton yarn manufacturing sequence of process	262/CHE/2004 & 22/03/2004	Granted & Ceased
2	Dr. D. Yuvaraj	Dr. D. Yuvaraj	Method for assessing fabric surface characteristics	37/CHE/2005 & 18/01/2005	Granted & Ceased
3	Dr. S. Subramanian, Dr.A. Peer Mohamed, & Paramasivam Dhanapal	Dr. S. Subramanian, Dr.A. Peer Mohamed, & Paramasivam Dhanapal	New method of production of compact yarn	1097/CHE/2006 & 28/06/2006	Granted & Ceased
4	Anna University, Chennai	Dr. A. Peer Mohammed, Dr. S. Subramanian, & T. Sureshram	Point fluted bottom rollers for roller drafting system of yarn spinning and preparatory machines	1231/CHE/2008 & 21/05/2008	Granted & Ceased
5	Dr. M. Murugesan, & S. Kuberasampth kumar	Dr. M. Murugesan, & S. Kuberasampth kumar	A new twisting system to twist all kind of fibers/ filaments without using ring and traveller	1123/CHE/2008 & 07/05/2008	Granted & Ceased
6	Dr. S. Subramanian, & S. Kubera Sampath Kumar	Dr. S. Subramanian, & S. Kubera Sampath Kumar	Nanomaterial based multilayer wound dressing system	2285/CHE/2014 & 08/05/2014	Amended
7	P. Pathalamuthu, A. Siddharthan, & Dr. V. R. Giridev	P. Pathalamuthu, A. Siddharthan, & Dr. V. R. Giridev	Spirograph based mechanical assembly for fabrication testing and measurement of product with near uniform characteristics	5603/CHE/2014 & 07/11/2014	Amended

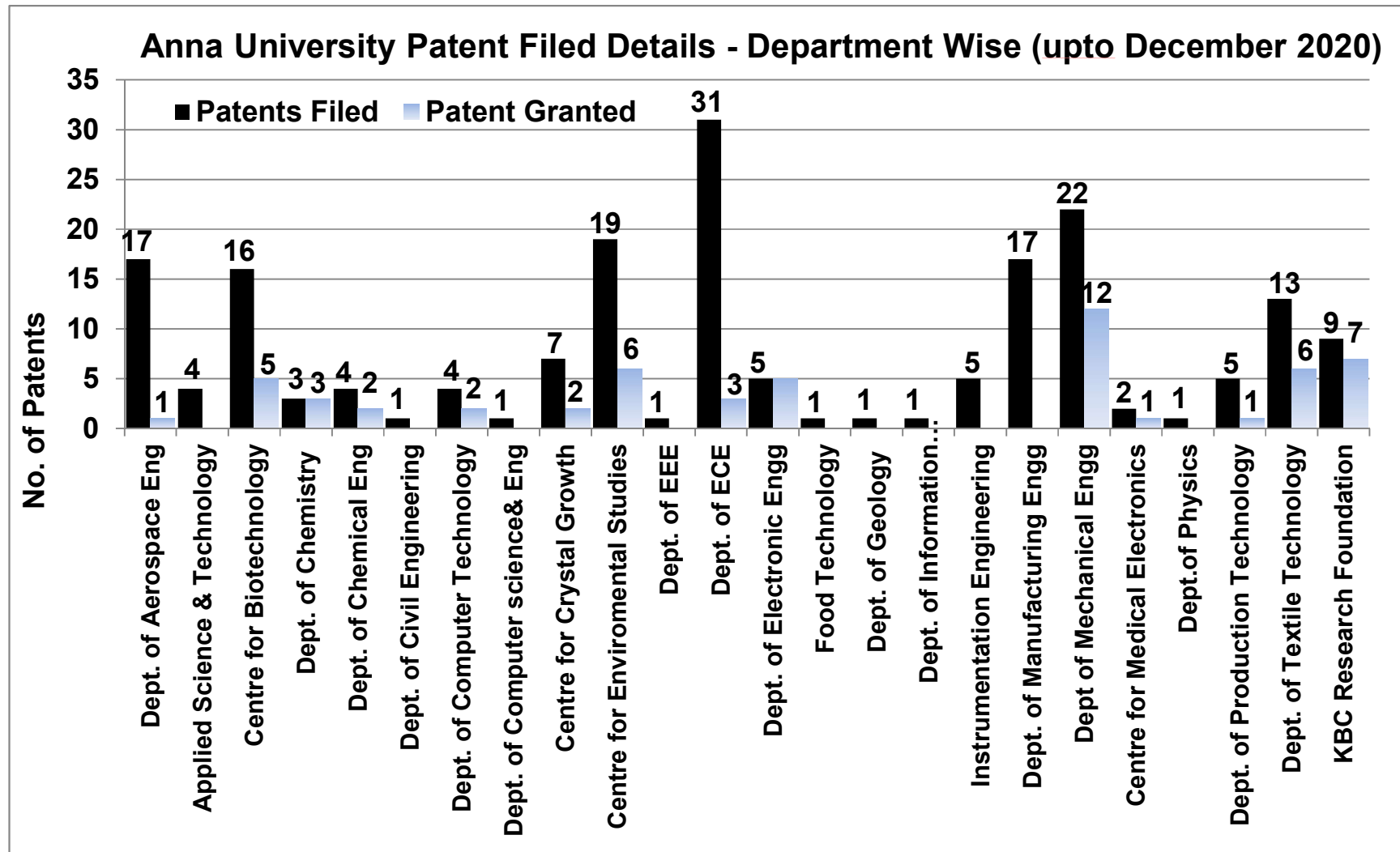
8	Dr. A. Peer Mohamed, Dr. S. Subramanian, P. Kathirvel & V. Preethi	Dr. A. Peer Mohamed, Dr. S. Subramanian, P. Kathirvel & V. Preethi	Devices to reduce inter fibre friction in roller drafting system for yarn manufacture	201641027276 & 10/08/2016	Amended
9	Dr. N. Gobi	Dr. N. Gobi	Construction of polymeric/electrospun composite membrane for water filtration and a method thereof	201641032148 & 21/09/2016	Amended
10	Dr. S. Subramanian, & Dr. A. Peer Mohamed	Dr. S. Subramanian, & Dr. A. Peer Mohamed	Modified cradle and nose bar for apron drafting system	201641043615 & 21/12/2016	Amended
11	N. Gobi & B. Devi	N. Gobi & B. Devi	Method to synthesis tio2 nanoparticles and lycopene - tio2 nanoparticles complex	201841025473 & 09/07/2018	In Order For Grant Under Section 43,Awaiting NBA Approval
12	N. Gobi & R. Senthil	N. Gobi & R. Senthil	Blended Suture for Surgical Application and a preparation process thereof	201841033152 & 04/09/2018	Awaiting Examination
13	N.Gobi & S.Arun Karthick	N.Gobi & S.Arun Karthick	Multifunctional nanocomposite nanofibrous filter for aerosol filtration, chemical and biological protection	201841029428 & 06/08/2018	Granted

23. KBC Research Foundation

Sl. No	Name of the Applicant (s)	Name of the Inventor (s)	Title	Application No. & Patent Filed Date	Current Status
1	Anna University, Chennai	Rajendran Venkatesh, Karthikeyan Sundaresan, Patchai Arun, Subramanian Srikanth	Multi user indoor wireless access method and system based on the ofdm transmission technique	320/MAS/2002 & 26/04/2002	Granted & Ceased
2	KBC Research Foundation Pvt. Ltd, Anna University, Chennai	Muthu Sethuraman	Chained checksum error correction mechanism to improve TCP performance over network with wireless links	US 12/487,313 & 18/06/2009	Granted & Expired
3	KBC Research Foundation Pvt. Ltd, Anna University, Chennai	Sarad Ammanath Venugopalan, & Srikanth Subramanian	Sub channel formation in OFDMA systems	US-12/645,709 & 23/12/2009	Granted
4	KBC Research Foundation Pvt. Ltd, Anna University, Chennai	Sarad Ammanath Venugopalan, & Srikanth Subramanian	Methods and systems for detecting a preamble of a data packet in wireless communication systems	US 12/716,803 & 03/03/2010	Granted
5	KBC Research Foundation Pvt. Ltd, Anna University, Chennai	Srikanth Subramanian, & Sathish Viswanathan	Methods and systems for synchronizing wireless transmission of data packets	US 12/726,960 & 02/03/2010	Granted & Expired
6	KBC Research Foundation Pvt. Ltd, Anna University, Chennai	Sarad Ammanath Venugopalan, & Srikanth Subramanian	Methods and systems for synchronizing wireless transmission of data packets	PCT/IB2010/054140 & 14/09/2010	Application Published
7	KBC Research Foundation Pvt. Ltd, Anna University, Chennai	Sarad Ammanath Venugopalan, & Srikanth Subramanian	Methods and systems for synchronizing wireless transmission of data packets	KR101412989B1 & 14/09/2010	Granted

8	KBC Research Foundation Pvt. Ltd, Anna University, Chennai	Sarad Ammanath Venugopalan, & Srikanth Subramanian	Methods and systems for synchronizing wireless transmission of data packets	CN102939724B & 14/09/2010	Granted
9	Council of scientific & industrial research	Santosh Bhaskaran, & Suvro Chatterjee	Interplanetary travel gravity simulator (IPTGS)	591/DEL/2015 & 03/03/2015	Amended

Graphical Representation of IPR report (Upto December 2020)



Anna University Patent Filed Details (Year Wise upto December 2020)

Total Patents Applied: 191, Granted & Ceased : 57

