



**SREE CHITRA TIRUNAL INSTITUTE FOR MEDICAL SCIENCES &  
TECHNOLOGY BIOMEDICAL TECHNOLOGY WING, POOJAPPURA,  
TRIVANDRUM –12**

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**[Email- ipcell@sctimst.ac.in](mailto:ipcell@sctimst.ac.in); Website—[www.sctimst.ac.in](http://www.sctimst.ac.in)**

**PATENTS FILED**

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## PATENTS (INDIA) FILED

Sl. No	APPLICATION No	DATE OF FILING	TITLE OF INVENTION	DATE OF PUBLICATION	INVENTORS
147	202341086486	18/12/2023	GUIDE WIRE FOR LUMBAR PUNCTURE		M GOWTHAM, ANISH K JOHN, KRISHNAKUMAR K, EASWER H V, PRAKASH NAIR, DHANYA S, TINY BABU, ANANYA L NAIR ,AYUSH ARUN, ABHAY GOVIND, SREENANDH S C, ATHIRA RAJ, THAMJEED T, KRISHNA SARMA S, ARUN ANIRUDHAN V
146	202341085893	15/12/2023	A DEVICE FOR AUTOMATED CARDIAC INVERSION WITH SELF DETECTION AND SHOCKING		NEETHU S, JITHIN KRISHNAN, C V MURALEEDHARAN, NARAYANAN NAMBOODIRI K K
145	202341077756	15/11/2023	A TROLLEY WITH A SUSPENSION SYSTEM		DR BEJOY THOMAS ANISH K JOHN , AABHA U, ASWIN P K ,VIMAL GEORGE, CHRIS JOSE PANICKER, VISWANATH S, KRISHNA SARMA S, ARUN ANIRUDHAN V
144	202341075750	06/11/2023	A PORTABLE X-RAY PROTECTION BARRIER AND EXAMINATION BOX WITH MOVING ARM SPECIMEN HOLDER MECHANISM		DR SABAREESWARAN A ANISH K JOHN ASWIN P K AADITYA S K REETHULAL M
143	202341072280	23/10/2023	NON – INVASIVE PORTABLE DEVICE FOR CONTINUOUS MONITORING OF BRAIN OXYGEN SUPPLY DEMAND		MANOJ G S RAHUL G NATH DR S. MANIKANDAN
142	202341066471	04/10/2023	A PLATELET RICH FIBRIN PREPARATION box FOR UNIFORM PLATELET RICH FIBRIN MEMBRANE		AMITA R, DEBASISH GUPTA,ANISH KARIMPANNUR JOHN, ANANYA L NAIR, ABHIRAM A S, AKSHAY SD, LEKSHMI RAJ J S, ADHARSH T S, KARTHIK KRISHNA
141	202341062105	15/09/2023	BIOLOGIC CAVITY VIEWER , IMAGING CAPTURE AND INCORPORATED IMAGE PROCESSING MEASUREMENT SYSTEM		SUBIN SUKESAN, SHAIJU S NAZEER, ANISH KARIMPANUUR JOHN, SMITA V, SARAVANA BABU M S , NELSA ABRAHAM, SOORAJ A R, GOVIND U, AYUSH ARUN, S KARTHIKEYAN, KRISHNA SARMA S, SAIKRISHNAN R, ARUN ANIRUDHAN V

140	202341060370	08/09/2023	A LEG MASSAGER FOR BLOOD DONOR'S COUCH	AMITA R, DEBASISH GUPTA, ANISH KARIMPANNUR JOHN. RAVIN JAYAKUMAR, ATUL SIVA R J, ANJANA LS, HAFIS S MOHAMED, ROHIT SUNIL, JAYAKRISHNAN M
139	202341056104	22/08/2023	NANOZYME BASED LATERAL FLOW ASSAY DEVICE	JAYASREE R.S SARATHKUKUAR ELANGOVAN
138	202341056012	21.08.2023	DRUG ELUTING MUCOADHESIVE BANDAGE	DR MANJU S DR REKHA M R
137	202341055518	18/08/2023	RESORBABLE GRADED COMPOSITE MEMBRANES THAT RELEASE BIOCERAMIC PARTICLES IN VIVO FOR GUIDED TISSUE REGENERATION	REMYA KOZHIMANNIL RAJAN, MANOJ KOMATH
136	202341055262	17/08/2023	MOBILE HOIST WITH HOIST – ASSISTED MOTORIZED WHEELCHAIR	LINCY PHILIP, SRUTHI S. NAIR , ANISH KARIMPANNUR JOHN , VISHAL V J , MITHUN M , JEBIN JOSE , VAISAKHAN M S , ADITHYA S R
135	202341055260	17/08/2023	TOOL FOR SURGICAL PLANNING IN VIRTUAL REALITY	DR KESAVA DAS C , SMITA V, SUBIN SUKESAN, SUNIL KUMAR , KRISHNA SARMA S, VENKATA SUBBAIH A, SMITHA S L , JEENA R S , ANISH KARIMPANNUR JOHN , RENJIMA G , JITHIN S S, ALOYSIOUS BENOY, SANDHRA PRATHAP P , ASSAY M KALLIAN , AKHIL AJITH , ARUN ANIRUDHAN V , SHEEBA KUMARI R, ADARSH ANIL KUMAR
134	202341052311	03/08/2023	AUTOMATED ULTRASOUND GUIDED ARM FOR CANNULATION OF MAJOR BLOOD VESSELS	SMITA V, SHRINIVAS V G, P K DASH, ANISH KARIMPANNUR JOHN, RAJEEV RAJAN, S MEGHA , AISWARYA LAKSHMI, PARVATHY S VINOD , BHAGYANATH S, SREELAKSHMI S, VARSHA R AJITH, AMRITA JIJU, SREEKANTH P, MANJU R S, TINY BABU, PRADEEP S L, KRISHNA SARMA S, ARUN ANIRUDHAN V

133	202341049843	24/07/2023	TRANSCUTANEOUS ENERGY TRANSFER SYSTEM WITH AUTOMATIC CONTROL FOR ARTIFICIAL HEART	SARATH S NAIR,HARIKRISHNAN S, NAGESH D S
132	202341044048	30/06/2023	IMPLANTABLE MICRO INFUSION PUMP WITH TUBE SLIP LOCK MECHANISM AND WIRELESS RECHARGING	SARATH S NAIR
131	202341041150	16.06.2023	PRIMERS FOR REAL-TIME ISOTHERMAL AMPLIFICATION OF THE MPT 64 GENE OF MYCOBACTERIUM TUBERCULOSIS AND THE PROCESS THEREOF	Dr.ANOOP KUMAR THEKKUVEETHIL, SWATHY SURESH NAIR, ANJANA USHA, RIA ELZA VARGHESE
130	202341040576	14.06.2023	AN AUTOMATIC SELF-LOCKING CLIP ARRESTOR FOR USE WITH AN ANTERIOR CERVICAL PLATING SYSTEM	KELEKANJERI GANAPATHI VISHWANATHAN SIVA KUMAR, VISHNU S PRASAD, MURALEEDHARAN CHIRATHODY VAYALAPPIL
129	202341037775	01/06/2023	BIFUNCTIONAL CYSTEINE GOLD NANOCCLUSERS FOR IMAGING AND INHIBITION OF AMYLOID BETA FIBRILS	JAYASREE R.S RESHMI AMBIKA NAGAPPAN, MUNUSAMY EZHILARASAN DHUSHYANDHUN
128	202341030091	26/04/2023	MODIFIED ATELCOLLAGEN BASED HYBRID HYDROGEL FOR THREE – DIMENSIONAL BIOPRINTING AND BIOMEDICAL APPLICATIONS	Dr. SENTHILKUMAR MUTHUSAMY, Dr. ANILKUMAR PALLICKAVEEDU RAJAN ASARI
127	202341033332	11/05/2023	A PATTY MAKING DEVICE	PRAKASH NAIR, SAJIN RAJ RG, ANISH KARIMPANNUR JOHN,EASWER HV, DHANYA S, SANJAY HM, M GOWTHAM, DEV NARAYAN, DEVIKA S NAIR, AMITH S NAIR, RAHUL DAS AH, P HARISH RAM, ARUN ANIRUDHAN V , SANJAY BEHARI
126	202341035039	19/05/2023	AUTOMATED CARDIOPULMONARY RESUSCITATION DEVICE	SMITA V, ANISH KARIMPANNUR JOHN, RUPA SREEDHAR, PRASANTHA KUMAR DASH, DEV NARAYAN, P HARISH RAM, RAHULDAS A H, DEVIKA S NAIR, AMITH S NAIR, DINESH GOPINATH, ARUN ANIRUDHAN V, KRISHNA SARMA S

125	202311005516	27/01/2023	A SELF-GELLING AND SELF-SETTING BIOACTIVE CEMENT FORMULATION FOR DENTAL TISSUE REGENERATION	Manoj Komath, Eva C Das
124	202341021145	24/03/2023	A SURGICAL CHAIR	Prakash Nair, Sajin Raj Rg, Anish Karimpannur John, Easwer Hv, Dhanya S, Sanjay Hm, M Gowtham, Rebin Zachira Mathew, Aiswarya Mohan, Adith V S, Sreedarsh V, Arjun Sankar J M, Arun Anirudhan V, Sanjay Behari
123	202341021144	24/03/2023	UNIVERSAL MAGNETIC INSTRUMENT HOLDER	Prakash Nair, Sajin Raj Rg, Anish Karimpannur John, Easwer Hv, Dhanya S, Sanjay Hm, M Gowtham, Ayush Arun, Aswanth S, Ravin Jayakumar, Ananya L Nair, S Anandhu, Arun Anirudhan V, Sanjay Behari
122	202341007709	07/02/2023	TOOL FOR ISOFIXING, ISOSLICING OF LARGE SIZE SHEEP/PIG HEART	Sabareeswaran A, Ranjith Gopinath, Sachin.J.Shenoy, Sowmya Ramanan.V, Anish Karimpannur John, P.Harish Ram, Rebin Zachira Mathew, Smrithi Mk, R.Rahul Dev, Abhiram.V.S, Ayush Arun, Aswanth S, Arun Anirudhan.V
121	202341007849	07/02/2023	FLUORESCENCE-BASED LATERAL FLOW DEVICE FOR DETECTION OF N-TERMINAL BRAIN NATRIURETIC PEPTIDE (NT-ProBNP) AND THE PROCESS THEREOF	Manoj Gopi, Harikrishnan Sivadasan Pillai, Anoop Kumar Thekkuveettil, Anugya Bhatt, Jeemon Panniyammakal, Sanjay Ganapathy, Vani Maya
120	202341003363	17/01/2023	ADAPTIVE PATIENT TROLLEY E-DRIVE	Smita V, Anish Karimpannur John, Subin Sukesan, Shrinivas V G, Prasanta Kumar Dash, Jayakrishnan C, Goutham Sai Krishna, A Arjun, Aparna Govind, Ayush Arun, Rajeev Rajan, Dinesh Gopinath, Sreelal S, Arun Anirudhan V

119	202341002949	14/01/2023	AN INTEGRATED SUCTION AND IRRIGATION DEVICE	PRAKASH NAIR, Anish Karimannur John, Easwer Hv, SANJAY HM, M GOWTHAM, Rebin Zachria Mathew, P Harish Ram, R Rahul Dev, Abhiram V S, BASIL BIJU K, ABHISHEK AP, REHAN SUNILDHAS, Arun Anirudhan V, SANJAY BEHARI
118	202341003519	18.01.2023	NANO GEL MODIFIED GLASS IONOMER CEMENT	Manju Saraswathy, Sreejith Sasidharan Lathikumari, Suresh Babu S
117	202241077522	31.12.2022	A PROCESS FOR THE FABRICATION OF LOW-COST POLYMERIC COMPOSITE OSTEOGENIC BONE SUBSTITUTE / BONE GRAFT EXPANDE	Bridget Jeyatha Wilson, Lizymol Philipose Pampadykandathil
116	202241071067	09.12.2022	SELF RETAINING- NON TAPERING ENDONASAL SPECULUM FOR ENDONASAL ENDOSCOPIC / MICROSCOPIC SURGERIES	SANJAY BEHARI, PRAKASH NAIR, Anish Karimannur John, Arun Anirudhan V, M GOWTHAM, SANJAY HM, Rebin Zachria Mathew, P Harish Ram, R Rahul Dev, Abhiram V S, BASIL BIJU K, SIDHARTH A, EASWER HV
115	202341021496	25.03.2023	THREE-DIMENSIONAL BIOPRINTED IN VITRO HEPATOTOXICITY ASSAY PLATFORM	Anilkumar Pallicka Veedu Rajan Asari, Shiny Velayudhan, Anupama Jayaprabha Sekar
114	202241072554	15.12.2022	AN IMPLANTABLE MULTIPOLAR HYBRID ELECTRODE PROBE FOR NEURAL STIMULATION AND SENSING	Jithin Krishnan, Syam K, Krishnakumar K, Muraleedharan Chirathody Vayalappil
113	202241072828	16.12.2022	THREE-DIMENSIONAL HYDROPHILIC NANOFIBROUS MEMBRANE AS TISSUE EXTENDER PROMOTING NEOVASCULARIZATION AND A PROCESS OF PREPARATION THEREOF	Jayanand Sudhir Bhanu, Rakhi A, Prabha Damodaran Nair, Lynda Velutheril Thomas, Sachin Jayachandra Shenoy, A Sabareeswaran

112	202341003820	19.01.2023	A PROCESS FOR THE FABRICATION OF MULTILAYERED PORCINE CHOLECYSTIC EXTRACELLULAR MATRIX (CECM) FOR TISSUE ENGINEERING APPLICATIONS	Thapasimuthu Vijayamma Anilkumar, Nebu George Thomas, Pratheesh Kanakarajan Vijayakumari, Yogesh Bharat Dalvi, Praveen Kunjan Sobhan, Nibu Varghese, U N Naga Lekshmi, Betsy Thomas
111	202241060846	26.10.2022	A TEMPERATURE PROFILING SYSTEM WITH IN-PLANE THREE AXIS MOVEMENT FOR CHIP- BASED ELECTRONIC DEVICES	Jithin Krishnan, Muraleedharan Chirathody Vayalappil, Biju B
110	202241061704	29.10.2022	MICE TRANSFER BOX-TUNNEL SYSTEM WITH SECURING GATES	Harikrishnan Vijayakumar Sreelatha, Arvind Kumar Prajapati
109	202241053714	20.09.2022	A ROTATING CASSET ARRANGEMENT FOR POSITIONING, TURNING AND TRANSFERING OF A HUMAN BEING	Smita V, Anish Karimannur John, Arun Anirudhan V, Rebin Zachria Mathew, P Harish Ram, R Rahul Dev, Abhiram V S, Suja R
108	202241052913	16.09.2022	AUTOMATED PRESSURE CHALLENGE TEST SYSTEM FOR CHIP BASED ELECTRONIC DEVICES	Jithin Krishnan, Neethu Sundarlal, Muraleedharan Chirathody Vayalappil, Adhil Aboobacker
107	202241053990	21.09.2022	DIGITALLY CONTROLLED MULTICHANNEL NEUROSTIMULATOR FOR PAIN MANAGEMENT	Jithin Krishnan, Neethu Sundarlal, Muraleedharan Chirathody Vayalappil, Nandu Krishnan A M, Ajay Prasad Hrishi
106	202241048796	26.08.2022	A FLUID FLOW CONTROL DEVICE WITH FLAT TYPE ADJUSTABLE DIFFERENTIAL PRESSURE VALVE	Anoop Gopinathan, Sukanya Latha Jayachandran, Vipin Dev Vasudevan, Jithu Raj Raju, Subhash Kumar Mahadevan Subhashmandiram, Chirathodi Vylappil Muraleedharan

105	202241041968	22.07.2022	PORTABLE LOW-COST DISPOSABLE AUTOMATIC DEFIBRILLATOR FOR CARDIACARREST MANAGEMENT		Manikandan Sethuraman, Manoj Govinda Pillai Sulochana Amma, Rahul Gopinathanpillai Nath
104	202241045140	08.08.2022	A HAND HELD ELECTRICALLY OPERATED DEVICE FOR AUTOMATIC DELIVERY AND REFILLING OF CONTRAST INJECTOR		Sarath Sasidharan Nair, Bijulal Sasidharan
103	202241043716	30.07.2022	REACTIVE MISTGENERATING SYSTEM FOR OBTAINING NANOSTRUCTURED, MULTILAYERED AND MULTIPHASE CALCIUM PHOSPHATE COATINGS IN PLASMA SPRAY		Manoj Komath, Sajin Raj Rajan Girija, Suresh Babu Sivadasan, Harikrishna Varma Parimanathu Kovilakom Rama Varma
102	202241052131	13.09.2022	A PEDICLE SCREW ASSEMBLY		Arvind Kumar Prajapati, Chirathodi Vylappil Muraleedharan, Harikrishna Varma Parimanathu Kovilakam Ramavarma, Krishnakumar Kesavapisharady, Akhil Anilkumar Indiradevi, Balram Babu
101	202241019852	01-04-2022	PLASTICIZER FREE ACRYLIC DENTURE SOFTLINERS		Manju Saraswathy, Anusree Vasu Shymalatha
100	202041048520	06-11-2020	METHOD AND SYSTEM FOR PREDICTING OCCURRENCE OF A NEUROLOGIC EVENT IN A SUBJECT	13/05/2022	Elizabeth Thomas thiruvila Kalayil, Devanand Palayil, Sudalaimani Chermadurai, Parathy Kochunarayana Pillai, Parvathy Kochunarayana Pillai, Sasi Pilacheri Meethal, Ramehekar Menon, Ashalatha Radhakrishnan, Sanjeev Varghese Thomas
99	202041054235	14-12-2020	PORTABLE AUTONOMOUS TEMPERATURE-CONTROLLED MEDICAL CABINET	17.06.2022	Dr. Subash Joshi Tharayparambil George, Kiran Babu, Seena S. Rajan, Jeyasingh Packiaraj K, Renji V Chacko, Prof. Vinod John, Dr. G.S.V.L. Narasimham, Dr. Biju Soman



98	202141048805	26-10-2021	BIOCOMPATIBLE AND NON-TOXIC METHOD FOR AUGMENTING MECHANICAL STRENGTH OF DECELLULARISED TISSUE AND SCAFFOLDS	Payanam Ramachandra Umashankar, Jesna Puthiya Veetil, Devika Sasikumar Lolitha
97	202141051940	12-11-2021	A SALIVA ABSORPTION PAD	Manju saraswathy,Paila Ravi Sankar,Sreejith Sasidharan Lathikumari
96	202141043066	23-09-2021	SYSTEM AND METHOD FOR DETECTION OF LIQUID TYPES WITHIN CATHETER OF AN IMPLANTABLE MICRO INFUSION PUMP	sarath sasidharan Nair, Nagesh Divakara Panickar Sulochana
95	202141048525	25-10-2021	DEVICE FOR AUTOMATIC ADJUSTMENT OF PROPORTION OF GASES WITHOUT DIRECT CONTACT AND CONTAMINATION FOR FIO2 MANAGEMENT	Sarath Sasidharan Nair, Nagesh Divakara Panickar Sulochana
94	202141039627	01-09-2021	RADIAL-3D-MULTI-ORGAN ON A CHIP PLATFORM FOR BIOLOGICAL EVALUATION	Parayanthala Valappil Mohanan, Joseph Xavier, Akhil Venugopal, Arathi Ashok
93	202141037803	20-08-2021	DOWNSTREAM HEAT TREATMENT PROCESSES FOR STRENGTH ENHANCEMENT OF SLENDER Ti6AL4V SHAPED IMPLANT CASTINGS	Kelekanjeri Ganapathi Vishwanathan Siva Kumar, Chirathodi Vylappil Muraleedharan, Ajmal Mohammed T
92	202141037246	17-08-2021	A DEVICE WITH AI INTERFACE FOR PREDICTING DOSAGE OF VITAMIN K ANTAGONISTS FOR MANAGING ORAL ANTICOAGULANT DRUGS	Harikrishnan S, Devika S,K Arvind Menon, Vignesh Krishnan, Amruthlal M,Ameer Suhail P A,Swapneel Chandrakant Mhatre, Jimmy Jose,Jeemon Panniyammakal, Sanjay G, Lakshmikanth LR

91	202141036054	10-08-2021	BIO-ADHESIVE ARTIFICIAL MEMBRANE GRAFT FOR PERFORATION THERAPY	Ramesh Parameswaran,Unnikrishnan Gopalakrishna Panicker,Jasmin Joseph
90	202141034127	29-07-2021	AN ENHANCED SURGICAL SUCTION SYSTEM WITH A ROLLER BASED REVERSE PRESSURE DEVICE	Anoop Gopinathan, Dr.Mathew Abraham, Dr.Tobin George, Anosh Kumar Madhusoodhanan Nair Sunitha Kumari, Vipin Dev Vasudevan, Subhash kumar mahadevan subhashmandiram, Chirathodi Vylappil Muraleedharan
89	202141025466	08-06-2021	A CELL AND TISSUE CULTURE STORAGE AND SHIPPING DEVICE	Naresh Kasoju, Anilkumar Pallicka veedu Rajan Asari, Ramesh Babu Venkatesan, Anju Mohanan Shylaja
88	202141022687	21-05-2021	HUMAN ON A CHIP FOR BIOLOGICAL EVALUATION	Parayanthala Valappil Mohanan, Joseph Xavier, Akhil Venugopal, Arathi Ashok
87	202041018074	19-04-2021	EXPANDABLE SURGICAL SPACE RETRACTOR WITH TUNABLE EXPANSION RATIO.	George Chandy Vilanilam, Aravind Kumar Prajapathi, Chirathodi Vylappil Muraleedharan
86	202141018012	19-04-2021	SOY PROTEIN BASED BIOMATERIAL FOR TISSUE REGENERATION.	Lizymol Philipose Pampadykandathil, Saranya Chulliyil Veluthedath, Deepu Damodharan Nair Regini
85	202141014826	31-03-2021	VASCULARISED MULTI-ORGAN-ON-A-CHIP DEVICE	Parayanthala Valappil Mohanan, Joseph Xavier, Akhil Venugopal, Arathi Ashok
84	202141019653	29-04-2021	UNIVERSAL AIRWAY DEVICE FOR LUNG ISOLATION	Gijo Raj, Azhar Kareem Shyla, Chennakeshavallu Gundapalli Narasimhaiah, Suneel Puthuvassery Raman

83	202141005890	11-02-2021	MULTI-WELL PLATE WITH INSERTS FOR CELL CULTURE AND BIOMEDICAL APPLICATIONS		Naresh Kasoju, Manoj Komath , Anilkumar Pallicka veedu Rajan Asari, Harikrishna Varma Parimanathu Kovilakom Rama Varma, Athira Rajalakshmi Kumar
82	202041053682	10-12-2020	A RAPID DETECTION KIT FOR CHLAMYDIA TRACHOMATIS AND THE PROCESS THEREOF.		Manoj Gopi, Dinoop Korol Ponnambath, Jyothi Embekkat Kaviyil, Shahana Nazarudheen
81	202041052774	03-12-2020	A FILTER SYSTEM FOR CIRCULATING TUMOR CELLS		Ramapurath Sarojini Amma Jayasree, Jibin Kunnumpurathu
80	202041052458	02-12-2020	A FLEXIBLE AND RETRACTABLE CLOSURE DEVICE, WITH BENDING RECOVERY PROPERTIES		Gijo Raj, Prakash Nair, Roy Joseph, Hariharan Venkat Easwer, Manoj Komath
79	202041044910	15-10-2020	MITRAL ANNULOPLASTY RING		Ranjith Gopinathan, Sunson Sunny, Muraleedharan Chirathodi Vayalappil, Ramesh Babu Venkatesan, Subhash Kumar Mahadevan
78	202041045741	20-10-2020	IMPLANTABLE MICRO INFUSION PUMP WITH RESIDUAL VOLUME MEASUREMENT	22-04-2022	Sarath sasidharan Nair, Nagesh Divakara Panickar Sulochana
77	202041043487	06-10-2020	A TEST KIT FOR THE DETERMINATION OF PROCALCITONIN(PCT) AND THE PROCESS THEREOF		Manoj Gopi, Dinoop Korol Ponnambath, Jyothi Embekkat Kaviyil, Reshmi Prabhukumar Baby
76	202041047225	29-10-2020	HYALURONIC ACID-CURCUMIN- HUMAN SERUM ALBUMIN COMPOSITION FOR RESTORING INFLAMMATION INDUCED DAMAGE OF KNEE JOINT	06-03-2022	Lissy Kalliyana Krishnan, Sachin Shenoy, Arumugam Sabaresswaran, Deepa Sathee

75	202041038937	09-09-2020	STRUCTURALLY AND FUNCTIONALLY GRADED POROUS MEMBRANE-SCAFFOLD FOR GUIDED TISSUE REGENERATION	11-03-2022	Ramesh Parameswaran, Manoj Komath, Sarah Lukhose Anilkumar Pallicka veedu Rajan Asari
74	202041033175	03-08-2020	A PROCESS FOR DEVELOPING ALIGNED ELECTROSPUN FIBROPOROUS POLYMER MEMBRANE	04-02-2022	Ramesh Parameswaran, Pallickaveedu RajanAsari AnilKumar, Prima Sumam
73	202041025514	17-06-2020	GENOMIC DNA EXTRACTION PROCESS FROM MYCOBACTERIUM TUBERCULOSIS SPUTUM SAMPLE FOR LOOP MEDIATED AMPLIFICATION REACTION.	24-12-2021	Anoopkumar Thekkuveetil, Vishnu Raj, Anjana Usha, Swathy Suresh Nair
72	202041028700	06-07-2020	ORTHOTIC DEVICE FOR OFFLOADING DIABETIC FOOT ULCER	07-01-2022	Subhash Neyyattinkara Neelakandan, Muraleedharan Chirathody Vayalappil
71	202041020378	14-05-2020	FLOCKED SWABS AND A PROCESS FOR THE MANUFACTURE THEREOF	19-11-2021	Lynda Velutheril Thomas, AshokSreedhar, Neethu Mohan, Rahul , Jijo Wilson
70	202041020015	12-05-2020	UNIVERSAL TRANSPORT MEDIUM	19-11-2021	Akhandanandan Maya Nandkumar, AnilKumar Pallicka veedu RajanAsari, AnugyaBhatt, Keerthi Santhosh kumar
69	202041019145	05-05-2020	INTUBATION ISOLATION BOX	12-11-2021	Sarath Gopalakrishnan, Nagesh Divakara Panickar Sulochana, Vinod Kumar Viswanathan Pillai, Sethuramen Manikandan
68	202041018961	04-05-2020	DUAL-CHAMBER SWAB COLLECTION BOOTH	12-11-2021	Ramesh Babu,Muraleedharan Chirathody Vayalappil, Asha Kishore, Arvind Kumar Prajapati, Kelekanjeri Ganapathi Vishwanathan Siva Kumar, Saurabh Nair
67	202041019872	11-05-2020	A SYSTEM FOR SPILLAGE CONTROL AND FLUID WASTE MANAGEMENT IN HOSPITALS	12-11-2021	Manju Saraswathy, Manoj Komath, Ajay Prasad Hrishi, Asha Kishore

66	202041016758	18-04-2020	AUTOMATIC SMART-BIN WITH COMBINED UV ENABLED MICROWAVE BASED DISINFECTION OF HOSPITAL WASTE	22-10-2021	Sethuramen Manikandan, Manoj Govinda Pillai Sulochana Amma, Rahul
65	202041016519	16-04-2020	RAPID VIRAL RNA ISOLATION PROTOCOL.	22-10-2021	Anoopkumar Thekkuveetil, Amal Wilson Varghese, Swathy Suresh Nair, Rasitha Santhosh Kanakalatha
64	202041015925	13-04-2020	SWAB COLLECTION BOOTH	22-10-2021	Ramesh Babu, Muraleedharan Chirathody Vayalappil, Arvind Kumar Prajapati, Kelekanjeri Ganapathi Vishwanathan Siva Kumar, Saurabh Nair, Nagesh Divakara Panickar Sulochana
63	202041020471	15-05-2020	A FORMULATION OF PURE DIMETHOXY CURCUMIN-HUMAN SERUM ALBUMIN AND A PROCESS FOR THE PREPARATION THEREOF	19/11/2021	Lissy Kalliyana Krishnan, RenjithParameswaran Nair, Mejo Chiratteparambil Korah, Deepa Sathee
62	202041015399	08-04-2020	DISPOSABLE DISINFECTANT ABSORBENT SPONGE.	08-10-2021	Manju Saraswathy, Manoj Komath
61	202041015384	08-04-2020	DEVELOPMENT OF REMOTE CONTROLLED NON TOUCH OPENING DUSTBIN WITH INTEGRATED DISINFECTION MECHANISM BASE ON UV LIGHT FOR INFECTION CONTROL IN COVID-19 OUTBREAK	08-10-2021	Sethuramen Manikandan, Manoj Govinda Pillai Sulochana Amma, Rahul G Nath
60	202041015212	07-04-2020	A KIT FOR THE RAPID DETECTION OF COVID-19 IGG/IGM ANTIBODIES USING IMMUNOCHROMATOGRAPHIC TECHNIQUES.	08-10-2021	Anugya Bhatt, Manoj Gopi, Renjith parameswaran Nair, Jyothi Embekkat Kaviyil, Dinooop Korol Ponnambath, Ranjith Sankarankutty Kartha, Priyanka Ajitha, Anilkumar Velayudhan, Vani Maya.

59	202041015783	11-04-2020	OROPHARYNGEAL SWAB	15-10-2021	Shiny Velayudhan, Maya Nandkumar , AnilKumar Pallicka veedu RajanAsari, Manoj Komath , Anugya Bhatt
58	202041014851	03-04-2020	BATTERY OPERATED ASSISTIVE BREATHING UNIT	08-10-2021	Sarath sasidharan Nair, Nagesh Divakara Panickar Sulochana .Vinodkumar Viswanathan Pillai
57	202041014548	01-04-2020	ISOLATION POD FOR THE ISOLATION / TRANSPORTATION OF INFECTED PATIENTS.	08-10-2021	Sarath Gopalakrishnan, Sethuramen Manikandan, Vinodkumar Viswanathan Pillai, Sarath sasidharan Nair, Nagesh Divakara Panickar Sulochana
56	202041014221	31-03-2020	EMERGENCY BREATHING ASSIST SYSTEM	08-10-2021	Sarath sasidharan Nair, Nagesh Divakara Panickar Sulochana, Vinodkumar Viswanathan Pillai
55	202041014200	31-03-2020	FACE MASKS SANITIZATION BIN	08-10-2021	Subhash Neyyattinkara Neelakandan, Muraleedharan Chirathody Vayalappil
54	202041014164	31-03-2020	DEPLOYABLE FIELD UNITS FOR EMERGENCY RESPONSE.	08-10-2021	Subhash Neyyattinkara Neelakandan, Muraleedharan Chirathody Vayalappil
53	202041013409	27-03-2020	POINT OF CARE TESTING PROTOCOL BASED ON RT- LAMP FOR RAPID DETECTION OF CORONAVIRUS SARS-COV- 2	01-10-2021	Anoopkumar Thekkuveetil, Amal Wilson Varghese, Swathy Suresh Nair, Rasitha Santhosh Kanakalatha, Anjana Usha, Ria Elza Varghese
52	202041028674	06-07-2020	DEVELOPMENT OF FILTER HOUSING FOR A LEUKODEPLETION FILTER UNIT	07.01.2022	Ranjith Gopinathan, Ramesh Parameswaran, Muraleedharan Chirathodi Vayalappil, Anugya Bhatt, Nikhil Prasad, Subhair Valakundil Assainar, Ramesh Babu Venkatesan

51	202041012139	20-03-2020	MULTI-COMPONENT PEPTIDE BASED BIOINK FOR BIOPRINTING OF TISSUE CONSTRUCTS	24-09-2021	Anugya Bhatt, Renjith parameswaran nair, Lakshmi Thompil Somasekharan, Riya Raju, Suvanish Kumar, Naresh Kasoju
50	202041007961	25-02-2020	A PROCESS FOR MODIFYING MAMMALIAN CHOLECYSTIC EXTRACELLULAR MATRIX THAT PROMOTES DIABETIC WOUND HEALING.	27-08-2021	Thapasimuthu Vijayamma Anilkumar, Praveen Kunjan Sobhan, Manjula Puthupparambil Mony
49	202041032109	27-07-2020	CAVITY CONFORMABLE SURGICAL SPACE STENT RETRACTOR	28-01-2022	Arvind Kumar Prajapati, George Chandy Vilanilam
48	202041004866	04-02-2020	ZINC OXIDE NANOPARTICLE INTEGRATED ANTI-MICROBIAL COMPOSITION FOR DENTAL RESTORATION	06-08-2021	Lizymol Philipose Pampadykandathil, Vibha Chandrababu, Deepu Damodharan Nair Ragini
47	202041007100	19-02-2020	A MICRODIALYSIS PROBE AND METHOD OF MANUFACTURING THEREOF	27-08-2021	Chhavi Gupta, Vinodkumar Viswanathan Pillai, Ajay Prasad Hrishi Puzhankara, Easwer Hariharan Venkat
46	202041001482	13-01-2020	A COMPOSITE SPONGE FOR HEMOSTATIC AND WOUND HEALING APPLICATIONS	16-07-2021	Parayanthala Valappil Mohanan , Remya Nirmal Suma
45	201941053786	24-12-2019	DEVICE WITH A CLIP-ON SCAFFOLD FOR ENGINEERING CO-CULTURED TISSUE CONSTRUCTS AND METHODS OF USE AND APPLICATIONS THEREOF	25-06-2021	Naresh Kasoju, Anilkumar Pallicka veedu Rajan Asari, Venkatesan Ramesh Babu, Jimna Mohamed Ameer
44	201941043077	23-10-2019	A BIOLOGICAL FLUID COMPONENT SEPARATOR AND THE MECHANISM THEREOF	30-04-2021	Subin Sukesan, Renjith parameswaran nair, Sarvana Babu Madhur Sampooram, Prabha Damodaran Nair, Rupa Sreedhar, Shrinivas Vitthal Gadhinglajkar, Prasanta Kumar Dash, Nitha Jayaram, Anugya Bhatt Subhash Neyyattinkara Neelakandan Muraleedharan Chirathody Vayalappil Naresh Kasoju
43	201941042420	18-10-2019	A DUAL BARREL DEVICE FOR THE COLLECTION OF BLOOD AND ISOLATION OF BLOOD COMPONENTS	16-09-2021	Renjith parameswaran nair, Anugya Bhatt, Vinodkumar Viswanathan Pillai, Lakshmi Thompil Somasekharan, Subin Sukesan, Venkatesan Rameshbabu

42	201941042426	18-10-2019	A PROCESS FOR DEVELOPING UNIFORM SURFACE TOPOGRAPHY MAINTAINED CARDIAC-PATCH FROM PORCINE CHOLECYST, DERIVED EXTRACELLULAR MATRIX	23-04-2021	Reshma Sukumaran Nair, Praveen Kunjan Sobhan, Thapasimuthu Vijayamma Anilkumar.
41	201941042440	18-10-2019	3D PRINTED BIPHASIC SCAFFOLD FOR TRACHEAL RECONSTRUCTION	23-04-2021	Prabha Damodaran Nair, Rahul Velikkakath Gopi
40	201941037451	17-09-2019	AN INVITRO NIDUS DEVICE TO EVALUATE LIQUID EMBOLIC AGENTS	19-03-2021	Arvind Kumar Prajapati, Roy Joseph, Jayadevan Enakshy Rajan
39	201941037650	18-09-2019	A PROCESS FOR MAKING SPHERICAL BIOCERAMIC BEADS USING SUPER HYDROPHOBIC POWDER BED	19-03-2021	Manoj Komath, Sivadasan Suresh Babu, Harikrishna Varma Parimanathu Kovilakom Rama Varma
38	201941031304	02-08-2019	CELL GROWTH ENHANCING BIOINK FORMULATION FOR 3D BIOPRINTED CONSTRUCTS	05-02-2021	Anugya bhatt,Naresh Kasoju,Roy Joseph,Lakshmi Thompil Somasekharan,Gayathri Prameela Jayachandran
37	201941027295	08-07-2019	AN INORGANIC-ORGANIC HYBRID RESIN BASED RADIOPAQUE BIOACTIVE COMPOSITE AND THE PROCESS THEREOF	15-01-2021	Lizymol Philipose pampady kandathil, Vibha Chandrababu
36	201941022802	08-06-2019	A BRAIDED STENT	11-12-2020	Sujesh Sreedharan, Narayanan Kakkad, Santhosh Kumar Kannath
35	201941019027	13-05-2019	A DELIVERY SYSTEM WITH A RELEASE MECHANISM FOR DEPLOYING AND DETACHING BRAIDED VASCULAR DEVICES.	20-11-2020	Sujesh sreedharan, Anku Sreekumar, Sreehari Unnikrishnan Nair
34	201941013671	04-04-2019	VASCULAR ENDOTHELIAL GROWTH FACTOR (VEGF), WHICH ENHANCES ANGIOGENESIS.	09-10-2020	Anoopkumar Thekkuveetil, Sheeja Liza Easo, Geethu Shaji



33	201941009511	12-03-2019	ANTIOXIDANT POLYMERIC SPONGES FOR WOUND HEALING APPLICATIONS.	11-06-2021	Rekha Mannemcherril Ramesan
32	201941000952	09-01-2019	A RELEASE MECHANISM FOR USE IN CATHETERIZED DELIVERY OF CARDIOVASCULAR IMPLANTABLE DEVICE INSIDE THE BODY	17-07-2020	Sujesh Sreedharan, Jijo Jerard
31	201941006810	21-02-2019	A TUNABLE HYBRID HYDROGEL	07-05-2021	Reshmi Raj, Thapasimuthu Vijayamma Anil kumar, Praveen Kunjan Sobhan.
30	201841049655	28-12-2018	A BRAIDED CUFF FOR PREVENTING ENDOLEAKS IN STENT GRAFTS	03-07-2020	Sujesh sreedharan, Krishna kumar sreekumaran
28	201941003745	30-01-2019	An IMPROVED DELIVERY DEVICE FOR DEPLOYMENT OF STENT GRAFTS.	31-07-2020	Sujesh sreedharan, Subhash neyyattinkara neelakandan, Krishna kumar sreekumaran, Subhash kumar mahadevan subhashmandiram
27	201941003328	28-01-2019	A VOICE PROSTHESIS DEVICE WITH A ONE-WAY SHUNT VALVE	31-07-2020	Bipin Thomas Varghese, Sujeshsreedharan, Kollengode Ramanathan Mahesh, Akhil
26	201941006800	21/02/2019	BIOINK FORMULATION SUITABLE FOR LOW TEMPERATURE	07/05/2021	Roy Joseph, Praveen Kunjan Sobhan
25	201841049649	28-12-2018	A SELF EXPANDING FLOW DIVERSION DEVICE WITH ENHANCED KINK RESISTANCE AND RADIAL STRENGTH	03-07-2020	Sujesh Sreedharan, Anku Sreekumar, Sreehari Unnikrishnan Nair, Roy Joseph
24	201841042752	14-11-2018	AN INTER-VERTEBRAL SPACER DEVICE WITH A DELIVERY INSTRUMENT EMPLOYING A PROTRACTING PIN MECHANISM AND A METHOD FOR DEPLOYMENT	15-05-2020	Manoj Komath, Sajin Raj Rajan Girija, Venkatesan Ramesh Babu
23	201941022982	10-06-2019	A POROUS INJECTABLE, FREEZE-DRIED HYDROGEL SCAFFOLD AIDING DERMAL REGENERATION AND PROCESS OF PREPARATION THERE OF	11-12-2020	Lissy Kalliyankrishnan, Rashmi Ramakrishnan, Biman Behari Mandal, Dimple Chouhan

22	201841038669	11-10-2018	AN ABSORBABLE SKIN SUBSTITUTE WITH COMBINATION MATRIX OF AMNION, FIBRIN AND HYALURONIC ACID (AM-F-HA) FOR WOUND REGENERATION AND THE PROCESS THEREOF.	17-04-2020	Lissy Kalliyankrishnan, Rashmi Ramakrishnan
21	201841018156	15-05-2018	PREPARATION OF CURCUMIN INCORPORATED CHOLECYSTIC EXTRACELLULAR MATRIX HYDROGEL (CEMH) FORMULATIONS.	22-11-2019	Thapasimuthu Vijayamma Anilkumar, Akhila Rajan, Geetha Chandrika Surendran.
20	201841008901	12-03-2018	A PROCESS OF THIN FLEXIBLE ELECTRODE ENCAPSULATION OF CORTICAL ELECTRODES WITH LEAD REINFORCEMENT FOR ECoG RECORDING.	13-09-2019	Jithin Krishnan Chirathody Vayalappil Muraleedharan Rethnagireeshwar Rajalingam
19	201841007029	24-02-2018	A MOLD FOR CORTICAL ELECTRODE FABRICATION WITH LEAD REINFORCEMENT MECHANISM	30-08-2019	Jithin Krishnan Chirathody Vayalappil Muraleedharan Rethnagireeshwar Rajalingam Biju Benjamin
18	201841005220	12-02-2018	A CONDUCTOR FLEX TEST SYSTEM TO TEST FATIGUE RESISTANCE OF UNIFORM LEAD BODY	16-08-2019	Jithin Krishnan Chirathody Vayalappil Muraleedharan Nitha Velayudha Panicker Biju Benjamin
17	201741042949	30-11-2017	A DEVICE WITH A SYSTEM FOR SIMULATING THE CHARGE DISTRIBUTION MATRIX IN ELECTRICAL PHANTOM MODEL OF BRAIN USING CONCENTRIC NEEDLE ELECTRODES.	31-05-2019	Muraleedharan Chirathody Vayalappil Jithin Krishnan. Biju Benjamin
16	201741041605	21-11-2017	LEAD BODY FLEXION TESTING DEVICE FOR IMPLANTABLE LEADS	24-05-2019	Muraleedharan Chirathody Vayalappil Jithin Krishnan. Nitha Velayudha Panicker

15	201741032817	16-09-2017	A PORTABLE DEVICE AND A METHOD FOR LOCATING THE SUPERFICIAL VEINS OF HUMAN BODY FOR INTRAVENOUS PUNCTURE AND TRACING THE ROUTE OF VEINS WITH PERIPHERAL SCANNING	22-03-2019	Sarath sasidharan Nair, Nagesh Divakara Panickar Sulochana, Bejoy Thomas
14	201741031418	05-09-2017	A KIT FOR CELL CULTURE,CELL SHEET HARVEST AND TRANSFER OF CELL SHEET USING BIODFUNCTIONALIZED FIBROUS MAT	08-03-2019	Anilkumar Pallicka veedu Rajan Asari, Kumary Thrikkovil Variath
13	201741038920	01-11-2017	PREVENTION OF INVIVO CALCIFICATION IN GLUTERALDEHYDE CROSSLINKED PERICARDIUM THROUGH MAGNESIUM CHELATION	03-05-2019	Payanam Ramachandra Umashankar, Kunnatheery Sreenivasan Prem Mohan Mohana Chandran Baiju.S.Dharan M.Unnikrishnan.
12	201841000603	05-01-2018	A VENTRICULAR ASSIST DEVICE BLOOD PUMP HAVING IMPELLER SUPPORTED WITH COMBINED PASSIVE MAGNETS AND HYDRODYNAMIC BEARING	12-07-2019	Sarath sasidharan Nair, Nagesh Divakara Panickar Sulochana, Vinod Kumar Viswanathan Pillai
11	201741031544	06-09-2017	BIOACTIVE RESORBABLE ELECTROSPUN FIBER MATS WITH GRADED STRUCTURE FOR PERIODONTAL TISSUE BARRIER APPLICATIONS	08-03-2019	Manoj Komath, Anilkumar Pallicka veedu Rajan Asari
10	201741016428	10-05-2017	A DEVICE AND A PROCESS FOR DETERMINING THE COAGULATION TIME FOR BLOOD AND FOR EVALUATION OF PROTHROMBIN TIME (PT) AND INTERNATIONAL NORMALIZED RATIO(INR)	16-11-2018	sarath sasidharan Nair, Anugya Bhatt
9	201741019058	31-05-2017	A TRILAYER SCAFFOLD FOR DEVELOPING A TISSUE ENGINEERED SKIN CONSTRUCT	07-12-2018	Babitha sumathy, Prabha Damodaran Nair

8	201641019235	02-06-2016	GOLD QUANTUM CLUSTER FOR TARGETED BRAIN IMAGING AND DELIVERY OF FOREIGN MOLECULES (DRUGS, NUTRIENTS, THERAPEUTICS ETC.) THROUGH BLOOD BRAIN BARRIER.	08-12-2017	Jayasree Ramapurath Sarojini amma, Lakshmi Vijayan Nair
7	4543/CHE/2015	28-08-2015	FIBRIN WAFER FOR SUSTAINED LOCAL DELIVERY OF HUMAN ALBUMINATED CURCUMIN	03-03-2017	Lissy Kalliyana Krishnan, Ranjith Sankarankutty Kartha
6	2863/CHE/2014	12-06-2014	AN IMPROVED ADJUSTABLE LIFT SYSTEM FOR MINIMAL INCISION SURGERIES	22-01-2016	Thomas Mathew, Jayakumar Karunakaran
5	6135/CHE/2013	27-12-2013	A PROCEDURE FOR FABRICATING AND USING DECELLULARIZED PORCINE CHOLECYST AS MUSCLE GRAFT FOR REPAIRING FULL OR PARTIAL THICKNESS ABDOMINAL DEFECT/HERNIA	28-08-2015	Dhanush Krishna Balakrishnan Nair, Syam Kennekkattu Venugopal, Narayanan Divakaran Nair, Thapasimuthu Vijayamma Anilkumar
4	5649/CHE/2013	07-12-2013, 07-01-2014 PRIORITY EXTENDED	A METHOD FOR FABRICATING CORNEAL-GRAFTS USING MAMMALIAN CHOLECYST-DERIVED EXTRACELLULAR MATRIX.	25-12-2015	Thapasimuthu Vijayamma Anilkumar, Sainulabdeen Anoop, Syam Kunnekkattu Venugopal
3	5049/CHE/2013	08-11-2013	BIOMIMETIC NANOFIBER ASSEMBLED HYDROGELS AS HYBRID SCAFFOLDS FOR ENGINEERING OF COMPLEX TISSUES AND THE INTERFACES AND THE PROCESS THERE OF	04-09-2015	Neethu Mohan, Prabha Damodaran Nair
2	2448/CHE/2012	20-06-2012	A BIOACTIVE IMPLANT FOR THE CLOSING AND REPAIR OF BONE DEFECTS.	28-02-2014	Hariharan Venkat Easwer, Girish Menon Ramachandran, Jayanand Sudhir Bhanu, Narayanan Nair Suresh Nair, Krishna Kumar Kesavapisharady, Gayathri Viswanathan, Mathew Abraham, Chittoor Viswanathan Gopalakrishnan, George Chandy Vilanilam, Venkatesan Ramesh Babu, Sekharapillai Vijayan, Parimanathu Kovilakom Rama Varma Hari Krishna Varma.

1	2002/CHE/2012	21-05-2012	A COMPOSITE FOR PREPARING RADIATION SHIELDING MATERIALS	22-11- 2013	Roy Joseph, Kiran Sukumaran