



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

(An Institute of National Importance under Govt. Of India)

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PATENTS FILED

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PATENTS (INDIA) FILED

Sl. No	APPLICATION No	DATE OF FILING	TITLE OF INVENTION	DATE OF PUBLICATION	INVENTORS
150.	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
149.	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
148.	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
147.	202341030091	26/04/2023	MODIFIED ATELCOLLAGEN BASED HYBRID HYDROGEL FOR THREE – DIMENSIONAL BIOPRINTING AND BIOMEDICAL APPLICATIONS		Dr. SENTHILKUMAR MUTHUSAMY, Dr. ANILKUMAR PALLICKAVEEDU RAJAN ASARI
146.	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
145.	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
144	202311005516	27/01/2023	A SELF-GELLING AND SELF-SETTING BIOACTIVE CEMENT FORMULATION FOR DENTAL TISSUE REGENERATION		Manoj Komath, Eva C Das

143.	202341021145	24/03/2023	A SURGICAL CHAIR	Prakash Nair, Sajin Raj Rg, Anish Karimannur 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
142.	202341021144	24/03/2023	UNIVERSAL MAGNETIC INSTRUMENT HOLDER	Prakash Nair, Sajin Raj Rg, Anish Karimannur 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
141.	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 Karimannur John, P.Harish Ram, Rebin Zachira Mathew, Smrithi Mk, R.Rahul Dev, Abhiram.V.S, Ayush Arun, Aswanth S, Arun Anirudhan.V
140.	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 Thekkuveetil, Anugya Bhatt, Jeemon Panniyammakal, Sanjay Ganapathy, Vani Maya
139.	202341003363	17/01/2023	ADAPTIVE PATIENT TROLLEY E-DRIVE	Smita V, Anish Karimannur 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
138.	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
137.	202341003519	18.01.2023	NANOGEL MODIFIED GLASS IONOMER CEMENT	Manju Saraswathy, Sreejith Sasidharan Lathikumari, Suresh Babu S

136.	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
135.	202241071067	09.12.2022	SELF RETAINING- NON TAPERING ENDONASAL SPECULUM FOR ENDONASAL ENDOSCOPIC / MICROSCOPIC SURGERIES	SANJAY BEHARI, PRAKASH NAIR, Anish Karimpannur 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
134.	202341021496	25.03.2023	THREE-DIMENSIONAL BIOPRINTED IN VITRO HEPATOTOXICITY ASSAY PLATFORM	Anilkumar Pallicka Veedu Rajan Asari, Shiny Velayudhan, Anupama Jayaprabha Sekar
133.	202241072554	15.12.2022	AN IMPLANTABLE MULTIPOLAR HYBRID ELECTRODE PROBE FOR NEURAL STIMULATION AND SENSING	Jithin Krishnan, Syam K, Krishnakumar K, Muraleedharan Chirathody Vayalappil
132.	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
131	202341003820	19.01.2023	A PROCESS FOR THE FABRICATION OF MULTILAYERED PORCINE CHOLECYSTIC EXTRACELLULAR MATRIX (CECM) FOR TISSUE	Thapasimuthu Vijayamma Anilkumar, Nebu George Thomas, Pratheesh Kanakarajan Vijayakumari, Yogesh Bharat Dalvi, Praveen Kunjan Sobhan, Nibu Varghese, U N Naga Lekshmi, Betcy Thomas

			ENGINEERING APPLICATIONS		
130.	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
129.	202241061704	29.10.2022	MICE TRANSFER BOX-TUNNEL SYSTEM WITH SECURING GATES		Harikrishnan Vijayakumar Sreelatha, Arvind Kumar Prajapati
128.	202241053714	20.09.2022	A ROTATING CASKET ARRANGEMENT FOR POSITIONING, TURNING AND TRANSFFERING OF A HUMAN BEING		Smita V, Anish Karimpannur John, Arun Anirudhan V, Rebin Zachria Mathew, P Harish Ram, R Rahul Dev, Abhiram V S, Suja R
127.	202241052913	16.09.2022	AUTOMATED PRESSURE CHALLENGE TEST SYSTEM FOR CHIP BASED ELECTRONIC DEVICES		Jithin Krishnan, Neethu Sundarlal, Muraleedharan Chirathody Vayalappil, Adhil Aboobacker
126.	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
125.	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
124.	202241041968	22.07.2022	PORTABLE LOW-COST DISPOSABLE AUTOMATIC DEFIBRILLATOR FOR CARDIACARREST		Manikandan Sethuraman, Manoj Govinda Pillai Sulochana Amma, Rahul Gopinathanpillai Nath

			MANAGEMENT		
123.	202241045140	08.08.2022	A HAND HELD ELECTRICALLY OPERATED DEVICE FOR AUTOMATIC DELIVERY AND REFILLING OF CONTRAST INJECTOR		Sarath Sasidharan Nair, Bijulal Sasidharan
122.	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
121.	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
120.	202241019852	01-04-2022	PLASTICIZER FREE ACRYLIC DENTURE SOFTLINERS		Manju Saraswathy, Anusree Vasu Shymalatha
119.	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, Ramechekar Menon, Ashalatha Radhakrishnan, Sanjeev Varghese Thomas
118.	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
117.	202141048805	26-10-2021	BIOCOMPATIBLE AND NON-TOXIC METHOD FOR AUGMENTING MECHANICAL STRENGTH OF DECELLULARISED TISSUE AND SCAFFOLDS		Payanam Ramachandra Umashankar, Jesna Puthiya Veettil, Devika Sasikumar Lolitha

116.	202141051940	12-11-2021	A SALIVA ABSORPTION PAD	Manju saraswathy,Paila Ravi Sankar,Sreejith Sasidharan Lathikumari
115.	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
114.	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
113.	202141039627	01-09-2021	RADIAL-3D-MULTI-ORGAN ON A CHIP PLATFORM FOR BIOLOGICAL EVALUATION	Parayanthala Valappil Mohanan, Joseph Xavier, Akhil Venugopal, Arathi Ashok
112.	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
111.	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

110.	202141036054	10-08-2021	BIO-ADHESIVE ARTIFICIAL MEMBRANE GRAFT FOR PERFORATION THERAPY	Ramesh Parameswaran,Unnikrishnan Gopalakrishna Panicker,Jasmin Joseph
109.	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
108.	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
107.	202141022687	21-05-2021	HUMAN ON A CHIP FOR BIOLOGICAL EVALUATION	Parayanthala Valappil Mohanan, Joseph Xavier, Akhil Venugopal, Arathi Ashok
106.	202041018074	19-04-2021	EXPANDABLE SURGICAL SPACE RETRACTOR WITH TUNABLE EXPANSION RATIO.	George Chandy Vilanilam, Aravind Kumar Prajapathi, Chirathodi Vylappil Muraleedharan
105.	202141018012	19-04-2021	SOY PROTEIN BASED BIOMATERIAL FOR TISSUE REGENERATION.	Lizymol Philipose Pampadykandathil, Saranya Chulliyil Veluthedath, Deepu Damodharan Nair Regini
104.	202141014826	31-03-2021	VASCULARISED MULTI-ORGAN-ON-A-CHIP DEVICE	Parayanthala Valappil Mohanan, Joseph Xavier, Akhil Venugopal, Arathi Ashok
103.	202141019653	29-04-2021	UNIVERSAL AIRWAY DEVICE FOR LUNG ISOLATION	Gijo Raj, Azhar Kareem Shyla, Chennakeshavallu Gundapalli Narasimhaiah, Suneel Puthuvassery Raman

102.	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 Parimathu Kovilakom Rama Varma, Athira Rajalakshmi Kumar
101.	202141007977	25-02-2021	AN ULTRASENSITIVE NANOSENSOR FOR DOPAMINE DETECTION AND THE PROCESS THEREOF	26.08.2022	Ramapurath Sarojini Amma Jayasree, Resmi Vijayan Nair
100.	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
99.	202041052774	03-12-2020	A FILTER SYSTEM FOR CIRCULATING TUMOR CELLS		Ramapurath Sarojini Amma Jayasree, Jibin Kunnumpurathu
98.	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
97.	202041044910	15-10-2020	MITRAL ANNULOPLASTY RING		Ranjith Gopinathan, Sunson Sunny, Muraleedharan Chirathodi Vayalappil, Ramesh Babu Venkatesan, Subhash Kumar Mahadevan
96.	202041045741	20-10-2020	IMPLANTABLE MICRO INFUSION PUMP WITH RESIDUAL VOLUME MEASUREMENT	22-04-2022	Sarath sasidharan Nair, Nagesh Divakara Panickar Sulochana
95.	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

94.	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
93.	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
92.	202041033175	03-08-2020	A PROCESS FOR DEVELOPING ALIGNED ELECTROSPUN FIBROPOROUS POLYMER MEMBRANE	04-02-2022	Ramesh Parameswaran, Pallickaveedu RajanAsari AnilKumar, Prima Sumam
91.	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
90.	202041028700	06-07-2020	ORTHOTIC DEVICE FOR OFFLOADING DIABETIC FOOT ULCER	07-01-2022	Subhash Neyyattinkara Neelakandan, Muraleedharan Chirathody Vayalappil
89.	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
88.	202041020015	12-05-2020	UNIVERSAL TRANSPORT MEDIUM	19-11-2021	Akhandanandan Maya Nandkumar, AnilKumar Pallicka veedu RajanAsari, AnugyaBhatt, Keerthi Santhosh kumar
87.	202041019145	05-05-2020	INTUBATION ISOLATION BOX	12-11-2021	Sarath Gopalakrishnan, Nagesh Divakara Panickar Sulochana, Vinod Kumar Viswanathan Pillai, Sethuramen Manikandan

86.	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
85.	202041029149	09-07-2020	ELECTROSPUN ZEIN AND ITS BLENDS WITH ENHANCED MUCOADHESION AS A DRUG DELIVERY SYSTEM	14/01/2022	Ramesh Parameswaran, Rekha Mannemcherril Ramesan, Prakash Nair, Medha Surendranath
84.	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
83.	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
82.	202041016519	16-04-2020	RAPID VIRAL RNA ISOLATION PROTOCOL.	22-10-2021	Anoopkumar Thekkuveetil, Amal Wilson Varghese, Swathy Suresh Nair, Rasitha Santhosh Kanakalatha
81.	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
80.	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, Renjith Parameswaran Nair, Mejo Chiratteparambil Korah, Deepa Sathee
79.	202041015399	08-04-2020	DISPOSABLE DISINFECTANT ABSORBENT SPONGE.	08-10-2021	Manju Saraswathy, Manoj Komath
78.	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

77.	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, Dinoop Korol Ponnambath, Ranjith Sankarankutty Kartha, Priyanka Ajitha, Anilkumar Velayudhan, Vani Maya.
76.	202041015783	11-04-2020	OROPHARYNGEAL SWAB	15-10-2021	Shiny Velayudhan, Maya Nandkumar , AnilKumar Pallicka veedu RajanAsari, Manoj Komath , Anugya Bhatt
75.	202041014851	03-04-2020	BATTERY OPERATED ASSISTIVE BREATHING UNIT	08-10-2021	Sarath sasidharan Nair, Nagesh Divakara Panickar Sulochana . Vinodkumar Viswanathan Pillai
74.	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
73.	202041014221	31-03-2020	EMERGENCY BREATHING ASSIST SYSTEM	08-10-2021	Sarath sasidharan Nair, Nagesh Divakara Panickar Sulochana, Vinodkumar Viswanathan Pillai
72.	202041014200	31-03-2020	FACE MASKS SANITIZATION BIN	08-10-2021	Subhash Neyyattinkara Neelakandan, Muraleedharan Chirathody Vayalappil
71.	202041014164	31-03-2020	DEPLOYABLE FIELD UNITS FOR EMERGENCY RESPONSE.	08-10-2021	Subhash Neyyattinkara Neelakandan, Muraleedharan Chirathody Vayalappil

70.	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
69	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
68.	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
67.	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
66.	202041032109	27-07-2020	CAVITY CONFORMABLE SURGICAL SPACE STENT RETRACTOR	28-01-2022	Arvind Kumar Prajapati, George Chandy Vilanilam
65.	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
64.	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
63.	202041001482	13-01-2020	A COMPOSITE SPONGE FOR HEMOSTATIC AND WOUND HEALING APPLICATIONS	16-07-2021	Parayanthala Valappil Mohanan , Remya Nirmal Suma
62.	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
61.	201941043077	23-10-2019	A BIOLOGICAL FLUID COMPONENT SEPARATOR AND THE MECHANISM THEREOF	30-04-2021	Subin Sukesan, Renjith parameswaran nair, Sarvana Babu Madhur Sampoomnam, Prabha Damodaran Nair, Rupa Sreedhar, Shrinivas Vitthal Gadhinglajkar, Prasanta Kumar Dash, Nitha Jayaram, Anugya Bhatt

					Subhash Neyyattinkara Neelakandan Muraleedharan Chirathody Vayalappil Naresh Kasoju
60.	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
59.	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.
58.	201941042440	18-10-2019	3D PRINTED BIPHASIC SCAFFOLD FOR TRACHEAL RECONSTRUCTION	23-04-2021	Prabha Damodaran Nair, Rahul Velikkakath Gopi
57.	201941037451	17-09-2019	AN INVITRO NIDUS DEVICE TO EVALUATE LIQUID EMBOLIC AGENTS	19-03-2021	Arvind Kumar Prajapati, Roy Joseph, Jayadevan Enakshy Rajan
56.	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
55.	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
54.	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

53.	201941034702	28-08-2019	A RADIOPAQUE BIOACTIVE NON CYTOTOXIC BONE CEMENT AND THE PROCESS THEREOF	05-03-2021	Lizymol Philipose pampady kandathil
52.	201941022802	08-06-2019	A BRAIDED STENT	11-12-2020	Sujesh Sreedharan, Narayanan Kakkad, Santhosh Kumar Kannath
51.	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
50.	201941013671	04-04-2019	VASCULAR ENDOTHELIAL GROWTH FACTOR (VEGF), WHICH ENHANCES ANGIOGENESIS.	09-10-2020	Anoopkumar Thekkuveetil, Sheeja Liza Easo, Geethu Shaji
49.	201941009511	12-03-2019	ANTIOXIDANT POLYMERIC SPONGES FOR WOUND HEALING APPLICATIONS.	11-06-2021	Rekha Mannemcherril Ramesan
48.	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
47.	201941006810	21-02-2019	A TUNABLE HYBRID HYDROGEL	07-05-2021	Reshmi Raj, Thapasimuthu Vijayamma Anil kumar, Praveen Kunjan Sobhan.
46.	201841049655	28-12-2018	A BRAIDED CUFF FOR PREVENTING ENDOLEAKS IN STENT GRAFTS	03-07-2020	Sujesh sreedharan, Krishna kumar sreekumaran
45.	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
44.	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

43.	201941006800	21/02/2019	BIOINK FORMULATION SUITABLE FOR LOW TEMPERATURE	07/05/2021	Roy Joseph, Praveen Kunjan Sobhan
42.	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
41.	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
40.	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
39.	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
38.	201841029835	08-08-2018	RECOMBINANT TRANSFORMING GROWTH FACTOR ALPHA (TGF α) FOR VARIOUS WOUND HEALING APPLICATIONS AND THE PROCESS THEREOF.	14-02-2020	Anoopkumar Thekkuvetttil, Salini Bhasker, Geethu Shaji
37.	201841020267	30-05-2018	A TUNABLE BIOINK FOR 3D BIOPRINTING AND THE PROCESS FOR THE PREPARATION THEREOF	06-12-2019	Roy Joseph, Praveen Kunjan Sobhan
36.	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.

35.	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
34.	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
33.	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
32.	201841000162	02-01-2018	GELATIN COPOLYMER WITH VINYL MONOMERS AND ITS BLEND WITH SYNTHETIC POLYMERS AS SCAFFOLD FOR CELL GROWTH.	05-07-2019	Lynda Velutheril Thomas Prabha Damodaran Nair
31.	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
30.	201741041605	21-11-2017	LEAD BODY FLEXION TESTING DEVICE FOR IMPLANTABLE LEADS	24-05-2019	Muraleedharan Chirathody Vayalappil Jithin Krishnan. Nitha Velayudha Panicker
29.	201741038830	01-11-2017	AN IMPROVED STENT WITH ENHANCED CRIMPABILITY, HAVING ENCLOSING STRUTS, FOR USE IN BLOOD VESSELS	03-05-2019	Sujesh Sreedharan, Krishna Kumar Sreekumaran
28.	201741039475	06-11-2017	A DELIVERY DEVICE WITH A THUMB WHEEL DRIVE FOR INTRODUCING, POSITIONING AND DEPLOYING A STENT GRAFT	10-05-2019	Sujesh Sreedharan, Krishna Kumar Sreekumaran, Jijo Jerard, Anoop Gopinathan

27.	201741040538	14-11-2017	IMPLANTABLE ATRIAL SEPTAL OCCLUSION DEVICE WITH LEFT ATRIAL DISC HAVING A LOW PROFILE INTER-TWINED CENTRE	31-07-2020	Sujesh Sreedharan, Jijo Jerard, Amritha Thankamony Suresh
26.	201741036490 PCT/IN2018/05064 2 of 10.10.2018	13-10-2017	IMPLANTABLE ATRIAL SEPTAL DEFECT OCCLUSION DEVICE WITH WOVEN CENTRAL SECTION ON LEFT ATRIAL FLANGE	19-04-2019	Sujesh Sreedharan, Jijo Jerard, Liji Geetha Vijayan, Dr. Bijulal Sasidharan
25.	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
24.	201741031554	06-09-2017	MULTI FUNCTIONAL FLUORESCENT NANOSENSOR FOR SIMULTANEOUS DETECTION OF COPPER AND CREATININE AND THE PROCESS THEREOF.	08-03-2019	Jayasree Ramapurath Sarojini amma, Resmi Vijayan Nair, Parvathy Radhakrishna Pillai Suma
23.	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
22.	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.
21.	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

20.	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
19.	201741021062	16-06-2017	A HYDROGEL SYSTEM FOR THREE-DIMENSIONAL (3d) PRINTING	21-12-2018	Shiny Velayudhan, Anilkumar Pallicka veedu Rajan Asari, Kumary Thrikkovil Variath, Kalliyanakrishnan Venkateswaran
18.	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
17.	201741019058	31-05-2017	A TRILAYER SCAFFOLD FOR DEVELOPING A TISSUE ENGINEERED SKIN CONSTRUCT	07-12-2018	Babitha sumathy, Prabha Damodaran Nair
16.	201741001964	18-01-2017	AN APPLICATION SYSTEM FOR TWO COMPONENT INJECTABLE GEL MIXTURES WITH A HOMOGENEOUS MIXING UNIT FOR VARIOUS APPLICATIONS.	20-07-2018	Praveen Krishnan Veerasubramaniam, Lynda Velutheril Thomas, Prabha Damodaran Nair
15.	201641023201	06-07-2016	A PROCESS FOR THE ISOLATION OF FIBRINOGEN CONCENTRATE, SERUM ALBUMIN OR THROMBIN FROM POOLED HUMAN PLASMA	12-01-2018	Lissy Kalliyana Krishnan, Anilkumar Velayudhan, Priyanka Ajitha, Ranjith Sankarankutty Kartha
14.	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
13.	201641020912	18-06-2016	MAGNETIC REASONANCE IMAGE(MRI) COMPATIBLE NON-REBREATHING SEQUENTIAL GAS DELIVERY SYSTEM TO MAINTAIN CONSTANT END TIDAL CARBON DIOXIDE (ETCO ₂), TO BE USED FOR	22-03-2019	Bejoy Thomas, Gayatri Parthasarathi, Manoj Govinda Pillai Sulochana Amma, Suneel Puthuvasseril Raman, Unnikrishnan Koniparampil Pappu

			CEREBRO VASCULAR REACTIVITY (CVR) ASSESSMENT USING FMRI AND ALLIED TECHNIQUES AND TO VARY THE LEVEL OF ETCO2 AT FIXED TIME POINTS		
12.	5408/CHE/2015	09-10-2015	POLYMERIC MICRO NEEDLES FOR CONTROLLED DELIVERY OF DRUGS/BIOMOLECULES AND A PROCESS FOR THE PREPERATION THERE OF	24-11-2017	Shiny Velayudhan, Prabha Damodaran Nair
11.	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
10.	3292/CHE/2015	26-06-2015	A METHOD FOR TESTING OXYGEN TRANSFER PERFORMANCE OF A BLOOD OXYGENATOR	13-01-2017	Muraleedharan Chirathody Vayalappil. Nagesh Divakara Panickar Sulochana
9.	6648/CHE/2014	29-12-2014	A SYSTEM AND A METHOD FOR NON-CONTACT WARMING OF BAG CONTAINING BLOOD AND INTRAVENOUS FLUIDS WITH INFRARED HEATING FROM REFRIGERATOR CONDITION TO PHYSIOLOGICAL CONDITION FOR MASSIVE TRANSFUSION.	01-07-2016	Sarath sasidharan Nair, Nagesh Divakara Panickar Sulochana
8.	2863/CHE/2014	12-06-2014	AN IMPROVED ADJUSTABLE LIFT SYSTEM FOR MINIMAL INCISION SURGERIES	22-01-2016	Thomas Mathew, Jayakumar Karunakaran
7.	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

6.	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 Kunnekkatu Venugopal
5.	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
4.	2894/CHE/2013	28-06-2013	HIGH SENSITIVE CURRENT CONTROLLED ELECTROMAGNETIC BLOOD FLOW METER DEVICE.	10-06-2016	Sarath sasidharan Nair, Nagesh Divakara Panickar Sulochana, Vinod Kumar Viswanathan Pillai
3.	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.
2.	2002/CHE/2012	21-05-2012	A COMPOSITE FOR PREPARING RADIATION SHIELDING MATERIALS	22-11-2013	Roy Joseph, Kiran Sukumaran
1.	985/CHE/2012	19-03-2012	A SIMPLIFIED PROCEDURE FOR ISOLATION OF TISSUE ENGINEERING- SCAFFOLDS FROM CHOLECYST	15-08-2014	Thapasimuthu Vijayamma Anilkumar