



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

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SI. No	APPLICATION No	DATE OF GRANT	TITLE OF INVENTION	DATE OF PUBLICATION	INVENTORS
158	202241019852	01-04-2022	PLASTICIZER FREE ACRYLIC DENTURE SOFTLINERS		Manju Saraswathy, Anusree Vasu Shymalatha
157	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
156	202041054235	14-12-2020	PORTABLE AUTONOMOUS TEMPERATURE-CONTROLLED MEDICAL CABINET		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
155	202141048805	26-10-2021	BIOCOMPATIBLE AND NON-TOXIC METHOD FOR AUGMENTING MECHANICAL STRENGTH OF DECELLULARISED TISSUE AND SCAFFOLDS		Payanam Ramachandra Umashankar, Jesna Puthiya Veettill, Devika Sasikumar Lolitha
154	202141051940	12-11-2021	A SALIVA ABSORPTION PAD		Manju saraswathy,Paila Ravi Sankar,Sreejith Sasidharan Lathikumari
153	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

152	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
151	202141039627	01-09-2021	RADIAL-3D-MULTI-ORGAN ON A CHIP PLATFORM FOR BIOLOGICAL EVALUATION	Parayanthala Valappil Mohanan, Joseph Xavier, Akhil Venugopal, Arathi Ashok
150	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
149	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
148	202141036054	10-08-2021	BIO-ADHESIVE ARTIFICIAL MEMBRANE GRAFT FOR PERFORATION THERAPY	Ramesh Parameswaran, Unnikrishnan Gopalakrishna Panicker, Jasmin Joseph
147	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

146	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
145	202141022687	21-05-2021	HUMAN ON A CHIP FOR BIOLOGICAL EVALUATION	Parayanthala Valappil Mohanan, Joseph Xavier, Akhil Venugopal, Arathi Ashok
144	202041018074	19-04-2021	EXPANDABLE SURGICAL SPACE RETRACTOR WITH TUNABLE EXPANSION RATIO.	George Chandy Vilanilam, Aravind Kumar Prajapathi, Chirathodi Vylappil Muraleedharan
143	202141018012	19-04-2021	SOY PROTEIN BASED BIOMATERIAL FOR TISSUE REGENERATION.	Lizymol Philipose Pampadykandathil, Saranya Chulliyil Veluthedath, Deepu Damodharan Nair Regini
142	202141014826	31-03-2021	VASCULARISED MULTI-ORGAN-ON-A-CHIP DEVICE	Parayanthala Valappil Mohanan, Joseph Xavier, Akhil Venugopal, Arathi Ashok
141	202141019653	29-04-2021	UNIVERSAL AIRWAY DEVICE FOR LUNG ISOLATION	Gijo Raj, Azhar Kareem Shyla, Chennakeshavallu Gundapalli Narasimhaiah, Suneel Puthuvassery Raman
140	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
139	202141007977	25-02-2021	AN ULTRASENSITIVE NANOSENSOR FOR DOPAMINE DETECTION AND THE PROCESS THEREOF	Ramapurath Sarojini Amma Jayasree, Resmi Vijayan Nair
138	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

137	202041052774	03-12-2020	A FILTER SYSTEM FOR CIRCULATING TUMOR CELLS		Ramapurath Sarojini Amma Jayasree, Jibin Kunnumpurathu
136	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
135	202041044910	15-10-2020	MITRAL ANNULOPLASTY RING		Ranjith Gopinathan, Sunson Sunny, Muraleedharan Chirathodi Vayalappil, Ramesh Babu Venkatesan, Subhash Kumar Mahadevan
134	202041045741	20-10-2020	IMPLANTABLE MICRO INFUSION PUMP WITH RESIDUAL VOLUME MEASUREMENT	22-04-2022	Sarath sasidharan Nair, Nagesh Divakara Panickar Sulochana
133	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
132	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
131	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
130	202041036226	22-08-2020	A PROCESS OF PREPARATION OF AN INJECTABLE HYDROGEL FORMULATION OF MAMMALIAN CHOLECYST EXTRACELLULAR MATRIX FOR TISSUE ENGINEERING APPLICATIONS	25-02-2022	Pratheesh kanakarajan vijayakumari, Praveen kunjan sobhan, Thapasimuthu Vijayamma Anilkumar,Reshmi Raj,Purnima Chandramohanan

129	202041033175	03-08-2020	A PROCESS FOR DEVELOPING ALIGNED ELECTROSPUN FIBROPOROUS POLYMER MEMBRANE	04-02-2022	Ramesh Parameswaran, Pallickaveedu RajanAsari AnilKumar, Prima Sumam
128	202041025514	17-06-2020	GENOMIC DNA EXTRACTION PROCESS FROM MYCOBACTERIUM TUBERCULOSIS SPUTUM SAMPLE FOR LOOP MEDIATED AMPLIFICATION REACTION.	24-12-2021	Anoopkumar Thekkuveettil, Vishnu Raj, Anjana Usha, Swathy Suresh Nair
127	202041025478	17-06-2020	LOW COST BIOACTIVE BONE CEMENTS	24-12-2021	Lizymol Philipose Pampadykandathil Bridget Jeyatha Wilson
126	202041028700	06-07-2020	ORTHOTIC DEVICE FOR OFFLOADING DIABETIC FOOT ULCER	07-01-2022	Subhash Neyyattinkara Neelakandan, Muraleedharan Chirathody Vayalappil
125	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
124	202041020015	12-05-2020	UNIVERSAL TRANSPORT MEDIUM	19-11-2021	Akhandanandan Maya Nandkumar, AnilKumar Pallicka veedu RajanAsari, AnugyaBhatt, Keerthi Santhosh kumar
123	202041019145	05-05-2020	INTUBATION ISOLATION BOX	12-11-2021	Sarath Gopalakrishnan, Nagesh Divakara Panickar Sulochana, Vinod Kumar Viswanathan Pillai, Sethuramen Manikandan
122	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

121	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
120	202041019872	11-05-2020	A SYSTEM FOR SPILLAGE CONTROL AND FLUID WASTE MANAGEMENT IN HOSPITALS	12-11-2021	Manju Saraswathy, Manoj Komath, Ajay Prasad Hrishu, Asha Kishore
119	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
118	202041016519	16-04-2020	RAPID VIRAL RNA ISOLATION PROTOCOL.	22-10-2021	Anoopkumar Thekkuveetil, Amal Wilson Varghese, Swathy Suresh Nair, Rasitha Santhosh Kanakalatha
117	202041016055	14-04-2020	LEVEL A PERSONAL PROTECTIVE EQUIPMENT WITH CONTINUOUS AIR SUPPLY FOR MEDICAL/ SURGICAL USE	22-10-2021	Jayanand Sudhir Bhanu
116	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
115	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
114	202041015399	08-04-2020	DISPOSABLE DISINFECTANT ABSORBENT SPONGE.	08-10-2021	Manju Saraswathy, Manoj Komath
113	202041015384	08-04-2020	DEVELOPMENT OF REMOTE CONTROLLED NON TOUCH OPENING DUSTBIN WITH INTEGRATED DISINFECTION MECHANISM BASE ON UV LIGHT FOR INFECTION	08-10-2021	Sethuramen Manikandan, Manoj Govinda Pillai Sulochana Amma, Rahul G Nath

			CONTROL IN COVID-19 OUTBREAK		
112	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.
111	202041015783	11-04-2020	OROPHARYNGEAL SWAB	15-10-2021	Shiny Velayudhan, Maya Nandkumar , Anilkumar Pallicka veedu RajanAsari, Manoj Komath , Anugya Bhatt
110	202041014851	03-04-2020	BATTERY OPERATED ASSISTIVE BREATHING UNIT	08-10-2021	Sarath sasidharan Nair, Nagesh Divakara Panickar Sulochana .Vinodkumar Viswanathan Pillai
109	202041022745	30-05-2020	HYDRO-NANO GEL POWDER FORMULATION FOR ORAL PROTEIN DELIVERY APPLICATIONS	03-12-2021	Mannemcherril Ramesan Rekha
108	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
107	202041014221	31-03-2020	EMERGENCY BREATHING ASSIST SYSTEM	08-10-2021	Sarath sasidharan Nair, Nagesh Divakara Panickar Sulochana, Vinodkumar Viswanathan Pillai
106	202041014200	31-03-2020	FACE MASKS SANITIZATION BIN	08-10-2021	Subhash Neyyattinkara Neelakandan, Muraleedharan Chirathody Vayalappil
105	202041014164	31-03-2020	DEPLOYABLE FIELD UNITS FOR EMERGENCY RESPONSE.	08-10-2021	Subhash Neyyattinkara Neelakandan, Muraleedharan Chirathody Vayalappil

104	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
103	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
102	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
101	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
100	202041032109	27-07-2020	CAVITY CONFORMABLE SURGICAL SPACE STENT RETRACTOR	28-01-2022	Arvind Kumar Prajapati, George Chandy Vilanilam
99	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
98	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
97	202041001482	13-01-2020	A COMPOSITE SPONGE FOR HEMOSTATIC AND WOUND HEALING APPLICATIONS	16-07-2021	Parayanthala Valappil Mohanan , Remya Nirmal Suma
96	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

95	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
94	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
93	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.
92	201941042440	18-10-2019	3D PRINTED BIPHASIC SCAFFOLD FOR TRACHEAL RECONSTRUCTION	23-04-2021	Prabha Damodaran Nair, Rahul Velikkakath Gopi
91	201941037451	17-09-2019	AN INVITRO NIDUS DEVICE TO EVALUATE LIQUID EMBOLIC AGENTS	19-03-2021	Arvind Kumar Prajapati, Roy Joseph, Jayadevan Enakshy Rajan
90	201941041135	11-10-2019	A SUCTION RETRACTOR DEVICE FOR AORTIC VALVE REPLACEMENT IN ADULT CARDIAC SURGERY	16-04-2021	Bineesh Kundoly Radhakrishnan, Sarath Gopalakrishnan, Vinodkumar Viswanathan Pillai. Rajkrishna Rajan ,
89	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

88	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
87	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
86	201941034702	28-08-2019	A RADIOPAQUE BIOACTIVE NON CYTOTOXIC BONE CEMENT AND THE PROCESS THEREOF	05-03-2021	Lizymol Philipose pampady kandathil
85	201941022802	08-06-2019	A BRAIDED STENT	11-12-2020	Sujesh Sreedharan, Narayanan Kakkad, Santhosh Kumar Kannath
84	201941013381	03-04-2019	A RADIOPAQUE POLYMERIC LIQUID EMBOLIC SYSTEM	09-10-2020	Roy Joseph,Jayadevan Enakshy Rajan, Gopika Valsalakumari Gopan
83	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
82	201941013671	04-04-2019	VASCULAR ENDOTHELIAL GROWTH FACTOR (VEGF), WHICH ENHANCES ANGIOGENESIS.	09-10-2020	Anoopkumar Thekkuveettil, Sheeja Liza Easo, Geethu Shaji
81	201941005030	08-02-2019	A MULTIMODALITY STIMULATION DEVICE FOR NEUROLOGICAL DISORDERS.	14-08-2020	Sajith Sukumaran, Sesh Sivadasan, Sajithlal Madavan Krishnamma, Jithin Krishnan, Rajkrishna Rajan
80	201941009511	12-03-2019	ANTIOXIDANT POLYMERIC SPONGES FOR WOUND HEALING APPLICATIONS.	11-06-2021	Rekha Mannemcherril Ramesan
79	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
78	201941006810	21-02-2019	A TUNABLE HYBRID HYDROGEL	07-05-2021	Reshmi Raj, Thapasimuthu Vijayamma Anil kumar, Praveen Kunjan Sobhan.

77	201841049655	28-12-2018	A BRAIDED CUFF FOR PREVENTING ENDOLEAKS IN STENT GRAFTS	03-07-2020	Sujesh sreedharan, Krishna kumar sreekumaran
76	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
75	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
74	201941006800	21/02/2019	BIOINK FORMULATION SUITABLE FOR LOW TEMPERATURE	07/05/2021	Roy Joseph, Praveen Kunjan Sobhan
73	201941001306	11-01-2019	AMINO ACID ENRICHED TUNABLE BIOINK FORMULATION FOR MULTIDIMENSIONAL BIOPRINTING AND THE PROCESS THEREOF	17-07-2020	Roy Joseph, Praveen Kunjan Sobhan
72	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
71	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
70	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
69	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
68	201841029835	08-08-2018	RECOMBINANT TRANSFORMING GROWTH FACTOR ALPHA (TGF α) FOR VARIOUS WOUND HEALING APPLICATIONS AND THE PROCESS THEREOF.	14-02-2020	Anoopkumar Thekkuveetil, Salini Bhasker, Geethu Shaji

67	201841028120	26-07-2018	A PROCESS FOR THE SYNTHESIS OF SHELL NACRE CONTAINING BIO-RESIN FOR DENTAL AND ORTHOPEDIC APPLICATIONS.	31-01-2020	Lizymol Philipose Pampadykandathil, Wilson Bridget Jeyatha, Venkiteswaran KalliyanaKrishnan
66	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
65	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.
64	201841018045	14-05-2018	A MICROFLUIDIC PAPER BASED ANALYTICAL DEVICE WITH A LAMINATED BASE AND THE PROCESS OF FABRICATION.	31-07-2020	Lynda Velutheril Thomas Prabha Damodaran Nair Priyadarsini Sreenivasan
63	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
62	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
61	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
60	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

59	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
58	201741041605	21-11-2017	LEAD BODY FLEXION TESTING DEVICE FOR IMPLANTABLE LEADS	24-05-2019	Muraleedharan Chirathody Vayalappil Jithin Krishnan. Nitha Velayudha Panicker
57	201741038832	01-11-2017	AN IMPROVED STENT FOR USE IN BLOOD VESSELS WITH ENHANCED FIXATION	03-05-2019	Sujesh Sreedharan, Krishna Kumar Sreekumaran
56	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
55	201741039555	07-11-2017	A DELIVERY DEVICE FOR POSITIONING AND DEPLOYMENT OF STENT GRAFTS.	10-05-2019	Sujesh Sreedharan, Krishna Kumar Sreekumaran, Vivek Parayath Uthaman, Subhash Neyyattinkara Neelakandan.
54	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
53	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
52	201741036490 PCT/IN2018/050642 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

51	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
50	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
49	201741031416	05-09-2017	A POROUS PULLULAN-GELATIN CRYOGEL SCAFFOLD FOR CARTILAGE TISSUE ENGINEERING.	08-03-2019	Nimi Nirmala, Resmi Anand, Merlin Rajesh Lal Lawrence Panchali, Prabha Damodaran Nair
48	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
47	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.
46	201741025621	19-07-2017	DEVELOPMENT OF SMART BIOACTIVE RADIOPAQUE DENTAL COMPOSITE WITH SUPERIOR MECHNANICAL PROPERIES FROM INORGARNIC-ORGANIC HYBRID RESIN	25-01-2019	Lizymol Philipose Pampadykandathil, Kalliyanakrishnan Venkateswaran, Vibha Chandrababu
45	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
44	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

43	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
42	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
41	201741019058	31-05-2017	A TRILAYER SCAFFOLD FOR DEVELOPING A TISSUE ENGINEERED SKIN CONSTRUCT	07-12-2018	Babitha sumathy, Prabha Damodaran Nair
40	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
39	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
38	201641026539	03-08-2016	AN ANTIMICROBIAL WOUND DRESSING MATERIAL	09-02-2018	Kalliyanakrishnan Venkateswaran, Lissy Kalliyana Krishnan, Rethikala Pandikapallil Kumaran
37	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
36	201641015636	05-05-2016	BIOMIMETIC FIBRIN GEL COMPOSITE INJECTABLE TO SPINAL CORD INJURY FOR PREVENTION OF IMMUNE REACTION AND DELIVERY OF NEURAL PROGENITORS	10-11-2017	Lissy Kalliyana Krishnan, Tara Sudhadevi

35	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 CEREBRO VASCULAR REACTIVITY (CVR) ASSESSMENT USING FMRI AND ALLIED TECHNIQUES AND TO VARY THE LEVEL OF ETCO ₂ AT FIXED TIME POINTS	22-03-2019	Bejoy Thomas, Gayatrrri Parthasarathi, Manoj Govinda Pillai Sulochana Amma, Suneel Puthuvasseril Raman, Unnikrishnan Koniparampil Pappu
34	201641012862	12-04-2016	A PROCESS OF ASCERTAINING RELIABILITY AND DETERMINING SAFE SERVICE LIFE OF HIGH RISK MEDICAL IMPLANTS LIKE ARTIFICIAL HEART VALVES USING AN ACCELERATED DURABILITY TESTING APPARATUS	13-10-2017	Subhash Neyyattinkara Neelakandan, Muraleedharan Chirathody Vayalappil
33	5557/CHE/2015	16-10-2015	AN IMPROVED PORTABLE BASSINET WITH CONTROLLED INFRARED WARMING FACILITY FOR THERMOREGULATION OF LOW-BIRTH-WEIGHT INFANTS TO ACHIEVE FASTER WEIGHT RECOVERY AND A METHOD FOR THE SAME.	21-04-2017	Sarath sasidharan Nair, Manoj Komath
32	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
31	4625/CHE/2015	01-09-2015	A COMPOSITE RELEASING STRONTIUM FOR BONE TISSUE ENGINEERING AND CONTROLLED DELIVERY APPLICATIONS AND THE PROCESS THERE OF	03-03-2017	Bindu Prasannakumaran Nair, Prabha Damodaran Nair
30	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
29	4362/CHE/2015	20-08-2015	NEW GENERATION OF CALCIUM PHOSPHATE BASED BIOCERAMIC SCAFFOLDS FROM SYNTHETIC INORGANIC PRECURSORS AND A PROCESS FOR THE PREPARATION THEREOF.	24-02-2017	Parimanathu Kovilakom Rama Varma Hari Krishna Varma, Nimmy Mohan, Sivadasan Suresh Babu

28	3022/CHE/2015	17-06-2015	ARTERIAL COMPRESSION DEVICE FOR POST ANGIOPLASTY MANAGEMENT IN FEMORAL AND RADIAL PUNCTURE SITE.	23-12-2016	Jithin Krishnan, Muraleedharan Chirathody Vayalappil
27	2918/CHE/2015	10-06-2015	AN IMPROVED PORTABLE INFANT WARMING DEVICE HAVING RADIANT NON CONTACT WARMING INFRARED LIGHT EMITTING DIODES FOR PROVIDING A UNIFORM WARM ENVIRONMENT AROUND A PREMATURE BORN BABY.	16-12-2016	Sarath sasidharan Nair, Nagesh Divakara Panickar Sulochana
26	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
25	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
24	4025/CHE/2014	18-08-2014	DETECTION AND REMOVAL OF ENDOSULFAN FROM GROUND WATER USING CADMIUM SELENIUM QUANTUM DOTS	01-07-2016	Jayasree Ramapurath Sarojini amma, Lakshmi Vijayan Nair
23	3482/CHE/2014	15-07-2014	A PORTABLE DEVICE AND A METHOD FOR NON-CONTACT WARMING OF BLOOD AND INTRAVENOUS FLUIDS WITH INFRARED HEATING FROM REFRIGERATOR CONDITION TO PHYSIOLOGICAL CONDITION.	04-03-2016	Sarath sasidharan Nair, Nagesh Divakara Panickar Sulochana
22	2863/CHE/2014	12-06-2014	AN IMPROVED ADJUSTABLE LIFT SYSTEM FOR MINIMAL INCISION SURGERIES	22-01-2016	Thomas Mathew, Jayakumar Karunakaran

21	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
20	6194/CHE/2013	31-12-2013	A METHOD FOR FABRICATING BIO-ARTIFICIAL SKIN GRAFT BY LOADING CELLS ON CHOLECYST EXTRACELLULAR MATRIX FOR WOUND HEALING APPLICATIONS.	04-09-2015	Deepa Revi, Anoopkumar Thekkuveetil, Thapasimuthu Vijayamma Anilkumar
19	046/CHE/2014	06-01-2014	AN EXTERNAL PNEUMATIC COMPRESSION DEVICE FOR PREVENTION OF DEEP VEIN THROMBOSIS	10-07-2015	Jithin Krishnan, Koruthu Puthenparampil Varughese
18	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
17	971/CHE/2012	16-03-2012	BIOREACTOR SYSTEM AND METHOD FOR GENERATING CARTILAGE TISSUE CONSTRUCTS IN A THREE DIMENSIONAL SCAFFOLD	20-09-2013	Chirathodi Vaylappil Muraleedharan, Prabha Damodaran Nair, Sumesh sasidharan
16	4867/CHE/2013	29-10-2013	POROUS SCAFFOLD FOR TISSUE ENGINEERING	25-12-2015	Prabha Damodaran Nair, Neena Aloysious
15	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
14	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

13	3131/CHE/2013	13-07-2013	PRODUCTION OF PURE IgY AGAINST MIXTURE OF TWO NEUROTOXINS (ANTI-NEUROTOXINS) AND TWO HEMOTOXINS (ANTI-HEMOTOXINS) FOR NEUTRALIZING THE EFFECTS OF ENVENOMATION IN SNAKE BITE PATIENTS	17-06-2016	Lissy Kalliyana krishnan, Soumya Krishnamoorthy
12	2338/CHE/2013	29-05-2013	A PROCEDURE FOR FABRICATING XENOGRAFT USING MAMMALIAN CHOLECYST DERIVED EXTRACELLULAR MATRIX FOR WOUND HEALING APPLICATIONS	02-10-2015	Deepa Revi, Thapasimuthu Vijayamma Anilkumar, Jaseer Muhamed Ceethakulath Jamaludheen
11	4529/CHE/2012	30-10-2012	SINGLE STEP METHOD FOR COVALENTLY LINKING HEPARIN TO DECELLULARISED TISSUE	28-08-2015	Payanam Ramachandra Umashankar, Prem Mohan Mohana Chandran
10	3172/CHE/2012	02-08-2012	A PROCESS FOR MAKING TITANIUM BONE IMPLANTS WITH BIOCOMPATIBLE AND NANOPOROUS SURFACE STRUCTURE	07-02-2014	Rajesh Palangadan, Manoj Komath, Parimanathu Kovilakom Rama Varma Hari Krishna Varma.
9	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.
8	2002/CHE/2012	21-05-2012	A COMPOSITE FOR PREPARING RADIATION SHIELDING MATERIALS	22-11-2013	Roy Joseph, Kiran Sukumaran

7	1080/CHE/2012	23-03-2012	A CENTRIFUGAL PUMP FOR TRANSFERRING FLUID AT A REDUCED PRIMING VOLUME WITHOUT DETERIORATION OF INHERENT FLUID PROPERTIES.	22-08-2014	Nagesh Divakara Panickar Sulochana, Vinod Kumar Viswanathan Pillai
6	988/CHE/2012	19-03-2012	NON TOXIC POLYURETHANE COMPOSITIONS WITH INHERENT RADIATION SHIELDING CAPABILITY AND OPTICAL TRANSPARENCY	20-09-2013	Roy Joseph, Kiran Sukumaran
5	1176/CHE/2012	28-03-2012	A PROCESS FOR DELAMINATING TISSUE LAYERS OF URINARY BLADDER FOR ISOLATING EXTRACELLULAR MATRIX COMPONENTS	01-11-2013	Thapasimuthu Vijayamma Anilkumar
4	877/CHE/2012	08-03-2012	A SIMPLIFIED PROCEDURE FOR ISOLATING TISSUE ENGINEERING SCAFFOLDS FROM SMALL INTESTINAL SUBMUCOSA OF WARM BLOODED ANIMALS	13-09-2013	Thapasimuthu Vijayamma Anilkumar
3	985/CHE/2012	19-03-2012	A SIMPLIFIED PROCEDURE FOR ISOLATION OF TISSUE ENGINEERING- SCAFFOLDS FROM CHOLECYST	15-08-2014	Thapasimuthu Vijayamma Anilkumar
2	2675/CHE/2011	04-08-2011	A PROCESS FOR THE PRODUCTION OF BIOACTIVE CHITOSAN WOUND DRESSING SPONGES FOR BURN WOUNDS		Willi Paul, Chandraprakash Sharma
1	802/MAS/2002	31-10-2002	A PROCESS FOR PREPARATION OF INJECTABLE, BIOASSIMILLABLE POLY PROPYLENE FUMARATE OLIGOMER	20-05-2005	Muthu Jayabalan