



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

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

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

**PATENTS (Foreign) FILED**

INTELLECTUAL PROPERTY RIGHT CELL,  
TECHNOLOGY BUSINESS DIVISION,  
DEPARTMENT OF TECHNOLOGY & QUALITY MANAGEMENT

# PATENTS (FOREIGN) FILED

SL.NO	APPL NO	DATE OF FILING	TITLE OF INVENTION	INVENTORS	APPLICANT	COUNTRY
31.	202041020471 PCT/IN2021/050453	12-05-2021	A FORMULATION OF PURE DIMETHOXY CURCUMIN-HUMAN SERUM ALBUMIN AND A PROCESS FOR THE PREPARATION THEREOF	Lissy Kalliyana Krishnan, RenjithParameswaran Nair, Mejo Chiratteparambil Korah, Deepa Sathee	Institute	PCT
30.	17/420,441 PCT/IN2020/050321	02-07-2021	VASCULAR ENDOTHELIAL GROWTH FACTOR (VEGF), FOR BETTER WOUND HEALING THROUGH ENHANCED ANGIOGENESIS.	Anoopkumar Thekkuveetil, Sheeja Liza Easo, Geethu Shaji	TRC	USA
29.	20908461.5 PCT/IN2020/050321	02-04-2020	VASCULAR ENDOTHELIAL GROWTH FACTOR (VEGF), FOR BETTER WOUND HEALING THROUGH ENHANCED ANGIOGENESIS.	Anoopkumar Thekkuveetil, Sheeja Liza Easo, Geethu Shaji	TRC	European Union
28.	20784813.6 PCT/IN2020/050317	04-06-2021	A RADIOPAQUE POLYMERIC LIQUID EMBOLIC SYSTEM	Roy Joseph, Jayadevan Enakshy Rajan, Gopika Valsalakumari Gopan	TRC	European Union
27.	17/291,075 PCT/IN2020/050317	04-05-2021	A RADIOPAQUE POLYMERIC LIQUID EMBOLIC SYSTEM	Roy Joseph, Jayadevan Enakshy Rajan, Gopika Valsalakumari Gopan	TRC	USA
26.	17/311,879 PCT/IN2020/050026	08-06-2021	AMINO ACID ENRICHED TUNABLE BIOINK FORMULATION FOR MULTIDIMENSIONAL BIOPRINTING AND THE PROCESS THEREOF	Roy Joseph, Praveen Kunjan Sobhan	TRC	USA
25.	20 703 305.1 PCT/IN2020/050026	23-02-2021	AMINO ACID ENRICHED TUNABLE BIOINK FORMULATION FOR MULTIDIMENSIONAL BIOPRINTING AND THE PROCESS THEREOF	Roy Joseph, Praveen Kunjan Sobhan	TRC	Europe

24.	19838978.5 (PCT/IN2019/050936)	22-04-2021	A SELF EXPANDING FLOW DIVERSION DEVICE WITH ENHANCED KINK RESISTANCE AND RADIAL STRENGTH	Sujesh Sreedharan, Anku Sreekumar, Sreehari Unnikrishnan Nair	TRC	Europe
23.	17/285,771 (PCT/IN2019/050936)	15-04-2021	A SELF EXPANDING FLOW DIVERSION DEVICE WITH ENHANCED KINK RESISTANCE AND RADIAL STRENGTH	Sujesh Sreedharan, Anku Sreekumar, Sreehari Unnikrishnan Nair	TRC	USA
22.	BR 11 2021 0058516 (PCT/IN2019/050936)	25-03-2021	A SELF EXPANDING FLOW DIVERSION DEVICE WITH ENHANCED KINK RESISTANCE AND RADIAL STRENGTH	Sujesh Sreedharan, Anku Sreekumar, Sreehari Unnikrishnan Nair	TRC	BR
21.	17/266,898 PCT/IN2019/050578	08-02-2021	RECOMBINANT TRANSFORMING GROWTH FACTOR ALPHA (TGFA) FOR VARIOUS WOUND HEALING APPLICATIONS AND THE PROCESS THEREOF.	Anoopkumar Thekkuveetil, Salini Bhasker, Geethu Shaji	TRC	US
20.	P00202005152 (PCT/IN2018/050878)	14-07-2020	PRIMERS FOR ISOTHERMAL AMPLIFICATION OF MPT64 GENE OF MYCOBACTERIUM TUBERCULOSIS AND THE PROCESS THEREOF	AnoopKumar Thekkuveetil Praveen Sanker Shivasankaran Swathy Suresh Nair	TRC	Indonesia
19.	KW/P/2020/000101 (PCT/IN2018/050879)	22-07-2020	LINT FREE CROSSLINKED CHITOSAN-PVA SPONGE AS AN ABSORBENT WOUND DRESSING AND METHOD OF PREPARATION THEREOF.	Lynda Velutheril Thomas Prabha Damodaran Nair Nimi Nirmala Shanti Krishna Ayilliath	TRC	Kuwait
18.	16959143 (PCT/IN2018/050879)	22-12-2020	LINT FREE CROSSLINKED CHITOSAN-PVA SPONGE AS AN ABSORBENT WOUND DRESSING AND METHOD OF PREPARATION THEREOF.	Lynda Velutheril Thomas Prabha Damodaran Nair Nimi Nirmala Shanti Krishna Ayilliath	TRC	USA
17.	18834068.1 (PCT/IN2018/050879)	06-07-2020	LINT FREE CROSSLINKED CHITOSAN-PVA SPONGE AS AN ABSORBENT WOUND DRESSING AND METHOD OF PREPARATION THEREOF	Lynda Velutheril Thomas Prabha Damodaran Nair Nimi Nirmala Shanti Krishna Ayilliath	TRC	European union

16.	20200127 (PCT/IN2018/050879)	29-06-2020	LINT FREE CROSSLINKED CHITOSAN-PVA SPONGE AS AN ABSORBENT WOUND DRESSING AND METHOD OF PREPARATION THEREOF.	Lynda Velutheril Thomas Prabha Damodaran Nair Nimi Nirmala Shanti Krishna Ayilliath	TRC	Bahrain
15.	OM/P/2020/271 PCT/IN2018/050879	02-07-2020	LINT FREE CROSSLINKED CHITOSAN-PVA SPONGE AS AN ABSORBENT WOUND DRESSING AND METHOD OF PREPARATION THEREOF.	Lynda Velutheril Thomas Prabha Damodaran Nair Nimi Nirmala Shanti Krishna Ayilliath	TRC	Oman
14.	P6000984/2020 (PCT/IN2018/050879)	29-06-2020	LINT FREE CROSSLINKED CHITOSAN-PVA SPONGE AS AN ABSORBENT WOUND DRESSING AND METHOD OF PREPARATION THEREOF.	Lynda Velutheril Thomas Prabha Damodaran Nair Nimi Nirmala Shanti Krishna Ayilliath	TRC	UAE
13.	QA/202006/000361 (PCT/IN2018/050879)	29-06-2020	LINT FREE CROSSLINKED CHITOSAN-PVA SPONGE AS AN ABSORBENT WOUND DRESSING AND METHOD OF PREPARATION THEREOF.	Lynda Velutheril Thomas Prabha Damodaran Nair Nimi Nirmala Shanti Krishna Ayilliath	TRC	Qatar
12.	520412360 PCT/IN2018/050879	29-06-2020	LINT FREE CROSSLINKED CHITOSAN-PVA SPONGE AS AN ABSORBENT WOUND DRESSING AND METHOD OF PREPARATION THEREOF.	Lynda Velutheril Thomas Prabha Damodaran Nair Nimi Nirmala Shanti Krishna Ayilliath	TRC	Saudi Arabia
11.	2020/03940 PCT/IN2018/050879	29-06-2020	LINT FREE CROSSLINKED CHITOSAN-PVA SPONGE AS AN ABSORBENT WOUND DRESSING AND METHOD OF PREPARATION THEREOF.	Lynda Velutheril Thomas Prabha Damodaran Nair Nimi Nirmala Shanti Krishna Ayilliath	TRC	South Africa
10.	17/253,443 PCT/IN2018/050642	17-12-2020	IMPLANTABLE ATRIAL SEPTAL DEFECT OCCLUSION DEVICE WITH WOVEN CENTRAL SECTION ON LEFT ATRIAL FLANGE	Sujesh Sreedharan, Jijo Jerard, Liji Geetha Vijayan, Dr. Bijulal Sasidharan	TRC	US
9.	2020/03941 PCT/IN2018/050642	29-06-2020	IMPLANTABLE ATRIAL SEPTAL DEFECT OCCLUSION DEVICE WITH WOVEN CENTRAL SECTION ON LEFT ATRIAL FLANGE	Sujesh Sreedharan, Jijo Jerard, Liji Geetha Vijayan, Dr. Bijulal	TRC	South Africa

				Sasidharan		
8.	18807438.9 PCT/IN2018/050642	07-07-2020	IMPLANTABLE ATRIAL SEPTAL DEFECT OCCLUSION DEVICE WITH WOVEN CENTRAL SECTION ON LEFT ATRIAL FLANGE	Sujesh Sreedharan, Jijo Jerard, Liji Geetha Vijayan, Dr. Bijulal Sasidharan	TRC	European Union
7.	BR11 2020 013348 5 PCT/IN2018/050642	29-06-2020	IMPLANTABLE ATRIAL SEPTAL DEFECT OCCLUSION DEVICE WITH WOVEN CENTRAL SECTION ON LEFT ATRIAL FLANGE	Sujesh Sreedharan, Jijo Jerard, Liji Geetha Vijayan, Dr. Bijulal Sasidharan	TRC	Brazil
6.	14688736 PCT/IN2011/000052	16.04.2015	METHOD FOR IN-VIVO BINDING OF CHROMATIN FRAGMENTS	Indraneel Mitra, Sharma Chandra Prakash, Mannemcherril Ramesan Rekha, Gopichettipalaya m Subbaratnam Bhuvaneshwar, Kavita Anirban Pal	TATA MEMORIAL CENTRE	US*
5.	13575756 (PCT/IN2011/000052)	24-01-2011	METHOD FOR IN-VIVO BINDING OF CHROMATIN FRAGMENTS	Indraneel Mitra, Sharma Chandra Prakash, Mannemcherril Ramesan Rekha, Gopichettipalaya m Subbaratnam Bhuvaneshwar, Kavita Anirban Pal	TATA MEMORIAL CENTRE	US*
4.	11588446 PCT/IN2005/000353 US 20070092509	27-10-2005	Method for ex-vivo separation of apoptotic chromatin fragments from blood or plasma for prevention and treatment of diverse human diseases	Indraneel Mitra, Urmila Chandrashekhar Samant, Gopesh Kumar Modi, Pradyumna Kumar Mishra, Gopichettipalaya m Subbaratnam Bhuvaneshwar	TATA MEMORIAL CENTRE	US*
3.	14100950, (PCT/IN2005/000353) US 20140099293	27-10-2005	Method for ex-vivo separation of apoptotic chromatin fragments from blood or plasma for prevention and treatment of diverse human diseases	Indraneel Mitra, Urmila Chandrashekhar Samant, Gopesh Kumar Modi, Pradyumna Kumar Mishra, Gopichettipalaya m Subbaratnam	TATA MEMORIAL CENTRE	US*

				Bhuvaneshwar		
2.	5823694 (PCT/IN2005/000353)	27-10-2005	A SYSTEM FOR EX-VIVO SEPARATION OF APOPTOTIC CHROMATIN FRAGMENTS FROM BLOOD OR PLASMA	Indraneel Mitra, Urmila Chandrashekhar Samant, Gopesh Kumar Modi, Pradyumna Kumar Mishra, Gopichettipalaya m Subbaratnam Bhuvaneshwar	TATA MEMORIAL CENTRE	EP
1.	11/588446 (PCT/IN2005/000353)	27-10-2005	A SYSTEM FOR EX-VIVO SEPARATION OF APOPTOTIC CHROMATIN FRAGMENTS FROM BLOOD OR PLASMA	Indraneel Mitra, Urmila Chandrashekhar Samant, Gopesh Kumar Modi, Pradyumna Kumar Mishra, Gopichettipalaya m Subbaratnam Bhuvaneshwar	TATA MEMORIAL CENTRE	US*

\*\*EP-European, US-United States, JP-Japan, CA-Canada, CSIR-Council of Scientific and Industrial Research, NRDC-National Research Development Corporation, KIRTADS-Kerala Institute for research training and development studies of Sch.castes and Sch. Tribes. UW- UNIVERSITY OF WASHINGTON,PCT-Patent Cooperation Treaty, NMITLI-New Millennium Indian Technology Leadership Initiative