



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

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Patents(Foreign)

SL NO	PATENT NO	APPL NO	DATE OF FILING	TITLE OF INVENTION	INVENTORS	APPLICA NT	COUNT RY
1.	5458826	63915	17/05/1993	METHOD FOR PRODUCING HEART VALVE DISC	Gopichettipalayam Subbaratnam Bhuvaneshwar Muraleedharan Chirathody Vyalappil Omana Amma Sreedharan Nair Neelakantan Nair	SCTIMST	US*
2.	6309999	09/272304	19/03/1999	PROCESS FOR THE PREPARATION OF AN IMMUNOADSORBENT MATRIX	Chandra Prakash Sharma, Peringatullil Raman Hari, Willi Paul	NRDC*	US*
3.	6610330	09/993028	06/11/2001	ANTI-DIABETIC AGENT OBTAINED FROM THE PLANT HUMBOLDTIA DECURRENS AND A PROCESS FOR PREPARING THE SAME	Janaswamy Madhusudhana Rao, Mangattu Achuthankunju Sumathy Kutty, Gopalan Nair Vijay, Alathur Damodaran, Kothanda Raman Rathinam, Rajagopal Sivakumar, Kottillil Mohan Das, Narayana Pillai Viswanathan Nair	CSIR,* SCTIMST, KIRTADS*	US*
4.	2001242730	2001242730 B2	16/02/2001	ANTI-DIABETIC AGENT OBTAINED FROM THE PLANT HUMBOLDTIA DECURRENS AND A PROCESS FOR PREPARING THE SAME	Janaswamy Madhusudhana Rao, Mangattu Achuthankunju Sumathy Kutty, Gopalan Nair Vijay, Alathur Damodaran, Kothanda Raman Rathinam, Rajagopal Sivakumar, Kottillil Mohan Das, Narayana Pillai Viswanathan Nair	CSIR,* SCTIMST, KIRTADS*	Australia
5.	100418544	01801640.5	16/02/2001	ANTI-DIABETIC AGENT OBTAINED FROM THE PLANT HUMBOLDTIA DECURRENS AND A PROCESS FOR PREPARING THE SAME	Janaswamy Madhusudhana Rao, Mangattu Achuthankunju Sumathy Kutty, Gopalan Nair Vijay, Alathur Damodaran, Kothanda Raman Rathinam, Rajagopal Sivakumar, Kottillil Mohan Das, Narayana Pillai Viswanathan Nair	CSIR,* SCTIMST, KIRTADS*	China

Patents(Foreign)

SL NO	PATENT NO	APPL NO	DATE OF FILING	TITLE OF INVENTION	INVENTORS	APPLICANT	COUNTRY
6.	EP1359926	WO2002072122	16/02/2001	ANTI-DIABETIC AGENT OBTAINED FROM THE PLANT HUMBOLDTIA DECURRENS AND A PROCESS FOR PREPARING THE SAME	Janaswamy Madhusudhana Rao, Mangattu Achuthankunju Sumathy Kutty, Gopalan Nair Vijay,Alathur Damodaran, Kothanda Raman Rathinam, Rajagopal Sivakumar, Kottillil Mohan Das, Narayana Pillai Viswanathan Nair	CSIR,* SCTIMST, KIRTADS*	European union states
7.	7300962	11/199,613	09/08/2005	HYDROGELS FORMED BY NON-COVALENT LINKAGES	Buddy.D.Ratner Prabha.D.Nair Maximiliane Silvia Boeckl Elizabeth Reeves Leber	UW	US*
8.	6949590	10/339,777	09/01/2003	HYDROGELS FORMED BY NON-COVALENT LINKAGES	Buddy.D.Ratner Prabha.D.Nair Maximiliane Silvia Boeckl Elizabeth Reeves Leber	UW	US*
9.	7105580	10/314453	05/12/2002	PORUS STRUCTURES FOR GROWING LIVING TISSUE AND METHODS OF MANUFACTURE	Prabha.D.Nair Buddy.D.Ratner Viola Vogel Robert.M.Nerem	UW	US*
10.	4822355	07/210,165	21/06/1988	HEART VALVE ASSEMBLY	Gopichettipalayam Subbaratnam Bhuvaneshwar	SCTIMST	US*
11.	EP0265533	EP19860114840 19861025	25/10/1986	HEART VALVE ASSEMBLY	Gopichettipalayam Subbaratnam Bhuvaneshwar	NRDC	EP*
12.	EP1924248	05856290.1	30/12/2005	pH SENSITIVE NANO PARTICLE FORMULATION FOR ORAL DELIVERY OF PROTEIN/PEPTIDES	Chandra Prakash Sharma, Mannemcherril Ramesan Rekha	CSIR* NMITLI	EP*
13.	CA 2621641	PCT/IN2005/000460	30/12/2005	pH SENSITIVE NANO PARTICLE FORMULATION FOR ORAL DELIVERY OF PROTEIN/PEPTIDES	Chandra Prakash Sharma, Mannemcherril Ramesan Rekha	CSIR* NMITLI	CA*
14.	JP.5080474.B	JP2008530755A	30/12/2005	pH SENSITIVE NANO PARTICLE FORMULATION FOR ORAL DELIVERY OF PROTEIN/PEPTIDES	Chandra Prakash Sharma, Mannemcherril Ramesan Rekha	CSIR* NMITLI	JP*
15.	09096655	13575756	24/01/2011	METHOD FOR IN- VIVO BINDING OF CHROMATIN	Indraneel Mitra, Sharma Chandra Prakash, Mannemcherril Ramesan	TATA MEMORIAL CENTRE	US*

Patents(Foreign)

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				FRAGMENTS	Rekha, Gopichettipalayam Subbaratnam Bhuvaneshwar, Kavita Anirban Pal		
16.	EP0622060	93303377.1	29/04/1993	IMPROVEMENT IN OR RELATING TO PROSTHETIC CARDIAC VALVE AND TO THE METHOD OF MANUFACTURING SAME.	Gopichettipalayam Subbaratnam Bhuvaneshwar, Chirathody Vayalappil Muraleedharan Omana Amma Sreedharan Nair Neelakantan Nair	NRDC*	EP*
17.	JP.3468794. B	JP121569/93	24/05/1993	IMPROVEMENT IN OR RELATING TO PROSTHETIC CARDIAC VALVE AND TO THE METHOD OF MANUFACTURING SAME.	Gopichettipalayam Subbaratnam Bhuvaneshwar, Chirathody Vayalappil Muraleedharan Omana Amma Sreedharan Nair Neelakantan Nair	NRDC*	JP*
18.	10,004,698	14/888,185	05/05/2014	FIBRIN WAFER/DISC AS A BIOLOGICAL CARRIER FOR SUSTAINED DELIVERY OF CURCUMIN	Lissy Kalliyana krishnan Lakshmi Sreedharan Pillai	ICMR	PCT
19.	10,849,983	2200/CHE/2013 PCT/IN2014/000338 14/892,164	20/05/2014	DEVELOPMENT OF SOLUBLE ALBUMINATED CURCUMIN FOR APPLICATION IN CANCER THERAPY	Lissy Kalliyana krishnan Christina Thomas	ICMR	US*
20.	2021/02576	2021/02576 (PCT/IN2019/050936)	19/04/2021	A SELF EXPANDING FLOW DIVERSION DEVICE WITH ENHANCED KINK RESISTANCE AND RADIAL STRENGTH	Sujesh Sreedharan Anku Sreekumar Sreehari Unnikrishnan Nair	TRC	South Africa
21.	2020/03941	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, Bijulal Sasidharan	TRC	South Africa
22.	US 11,911,302 B2	17/285,771 (PCT/IN2019/050936)	15/04/2021	A SELF EXPANDING FLOW DIVERSION DEVICE WITH ENHANCED KINK RESISTANCE AND	Sujesh Sreedharan Anku Sreekumar Sreehari Unnikrishnan Nair	TRC	USA

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				RADIAL STRENGTH			
23.	EP3902505	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
24.	US 11,986,571 B2	17/291,075 PCT/IN2020/ 050317	04/05/2021	A RADIOPAQUE POLYMERIC LIQUID EMBOLIC SYSTEM	Roy Joseph, Jayadevan Enakshy Rajan Gopika Valsalakumari Gopan	TRC	U.S.A
25.	EP3873547	20784813.6 PCT/IN2020/ 050317	04/6/2021	A RADIOPAQUE POLYMERIC LIQUID EMBOLIC SYSTEM	Roy Joseph, Jayadevan Enakshy Rajan Gopika Valsalakumari Gopan	TRC	European Union
26.	BR 11 2021 005851 6	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
27.	3700432	18807438.9(EU) (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, Bijulal Sasidharan	TRC	European Union
28.		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, Bijulal Sasidharan	TRC	Brazil
29.	12290425	16/959,143(USA) (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

****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**

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development studies of Sch.castes and Sch. Tribes. UW- UNIVERSITY OF WASHINGTON,PCT-Patent Cooperation Treaty, NMITLI-New Millennium Indian Technology Leadership Initiative