



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

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FOREIGN PATENTS GRANTED

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DEPARTMENT OF TECHNOLOGY & QUALITY MANAGEMENT

Patents(Foreign)

SL NO	PATENT NO	APPL NO	DATE OF FILING	TITLE OF INVENTION	INVENTORS	APPLICANT	COUNTRY	Date of grant
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*	17/10/1995
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*	30/10/2001
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*	26/08/2003
4.	2001242730	2001242730B2	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	18/02/2005
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,	CSIR,* SCTIMST / KIRTADS *	China	17/9/2008

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					Kottillil Mohan Das, Narayana Pillai Viswanathan Nair			
6.	EP13599 26	WO200207 2122	16/02/20 01	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	06/10/2006
7.	7300962	11/199,613	09/08/20 05	HYDROGELS FORMED BY NON-COVALENT LINKAGES	Buddy.D.Ratner Prabha.D.Nair Maximiliane Silvia Boeckl Elizabeth Reeves Leber	UW	US*	27/11/2007
8.	6949590	10/339,777	09/01/20 03	HYDROGELS FORMED BY NON-COVALENT LINKAGES	Buddy.D.Ratner Prabha.D.Nair Maximiliane Silvia Boeckl Elizabeth Reeves Leber	UW	US*	27/09/2005
9.	7105580	10/314453	05/12/20 02	PORUS STRUCTURES FOR GROWING LIVING TISSUE AND METHODS OF MANUFACTURE	Prabha.D.Nair Buddy.D.Ratner Viola Vogel Robert.M.Nerem	UW	US*	12/09/2006
10.	4822355	07/210,165	21/06/19 88	HEART VALVE ASSEMBLY	Gopichettipalayam Subbaratnam Bhuvaneshwar	SCTIMST	US*	18/04/1989
11.	EP02655 33	EP1986011 4840 19861025	25/10/19 86	HEART VALVE ASSEMBLY	Gopichettipalayam Subbaratnam Bhuvaneshwar	NRDC	EP*	18/04/1988
12.	EP19242 48	05856290. 1	30/12/20 05	pH SENSITIVE NANO PARTICLE FORMULATION FOR ORAL DELIVERY OF PROTEIN/PEPTIDES	Chandra Prakash Sharma, Mannemcherril Ramesan Rekha	CSIR* NMITLI	EP*	25/09/2014
13.	CA 2621641	PCT/IN200 5/000460	30/12/20 05	pH SENSITIVE NANO PARTICLE FORMULATION FOR ORAL DELIVERY OF	Chandra Prakash Sharma, Mannemcherril Ramesan Rekha	CSIR* NMITLI	CA*	21/10/2014

Patents(Foreign)

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				PROTEIN/PEPTIDES				
14.	JP.50804 74.B	JP2008530 755A	30/12/20 05	pH SENSITIVE NANO PARTICLE FORMULATION FOR ORAL DELIVERY OF PROTEIN/PEPTIDES	Chandra Prakash Sharma, Mannemcherril Ramesan Rekha	CSIR* NMITLI	JP*	21/11/2012
15.	0909665 5	13575756	24/01/20 11	METHOD FOR IN- VIVO BINDING OF CHROMATIN FRAGMENTS	Indraneel Mitra, Sharma Chandra Prakash, Mannemcherril Ramesan Rekha, Gopichettipalayam Subbaratnam Bhuvaneshwar, Kavita Anirban Pal	TATA MEMORI AL CENTRE	US*	04/08/2015
16.	EP06220 60	93303377. 1	29/04/19 93	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*	20.09.2000
17.	JP.34687 94.B	JP121569/ 93	24/05/19 93	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*	17.11.2003
18.	10,004,6 98	14/888,185	05/05/20 14	FIBRIN WAFER/DISC AS A BIOLOGICAL CARRIER FOR SUSTAINED DELIVERY OF CURCUMIN	Lissy Kalliyana krishnan Lakshmi Sreedharan Pillai	ICMR	PCT	26.06.2018
19.	10,849,9 83	2200/CHE/ 2013 PCT/IN201 4/000338 14/892,164	20/05/20 14	DEVELOPMENT OF SOLUBLE ALBUMINATED CURCUMIN FOR APPLICATION IN CANCER THERAPY	Lissy Kalliyana krishnan Christina Thomas	ICMR	US*	12/01/2020
20.	2021/025 76	2021/0257 6 (PCT/IN20 19/050936)	19/04/20 21	A SELF EXPANDING FLOW DIVERSION DEVICE WITH ENHANCED KINK RESISTANCE AND RADIAL STRENGTH	Sujesh Sreedharan Anku Sreekumar Sreehari Unnikrishnan Nair	TRC	South Africa	26.01.2022
21.	2020/039	2020/0394	29/06/20	IMPLANTABLE ATRIAL	Sujesh Sreedharan,	TRC	South	

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	41	1 (PCT/IN2018/050642)	20	SEPTAL DEFECT OCCLUSION DEVICE WITH WOVEN CENTRAL SECTION ON LEFT ATRIAL FLANGE	Jijo Jerard, Liji Geetha Vijayan, Bijulal Sasidharan		Africa	27.10.2021
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 RADIAL STRENGTH	Sujesh Sreedharan Anku Sreekumar Sreehari Unnikrishnan Nair	TRC	USA	27.02.2024
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	21.02.2024
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	21/05/2024
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	07/08/2024
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	02/07/2024
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	12/02/2025
28.	BR11 2020 013348 5	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	28/01/2025

Patents(Foreign)

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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	06/05/2025
<p>**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</p>								