

Office of the Controller General of Patents, Designs & Trade Marks Department of Industrial Policy & Promotion, Ministry of Commerce & Industry, Government of India

(http://ipindia.nic.in/index.htm)



(http://ipindia.nic.in/index.htm)

	Application Details
APPLICATION NUMBER	202241015672
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	22/03/2022
APPLICANT NAME	<ol> <li>Dr.S.Bathrinath</li> <li>Dr. P. Lakshmi Prasanna</li> <li>Dr. A. Shanmuganathan</li> <li>Dr. M.S.Srinivasa Rao</li> <li>Mr. M. Kalyan Chakravarthi</li> <li>Mr. Nellore Manoj Kumar</li> </ol>
TITLE OF INVENTION	Nanorobotics for medical applications using NEMS and MEMS
FIELD OF INVENTION	MECHANICAL ENGINEERING
E-MAIL (As Per Record)	03mrmanoj@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	
PUBLICATION DATE (U/S 11A)	15/04/2022

**Application Status** 

APPLICATION STATUS	Awaiting Request for Examination				
			View Documents		
Filed Published RQ Filed How Under Examination					
Disposed					
In case of any discrepancy in status, kindly contact ipo-helpdesk@nic.in					

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/03/2022

(54) Title of the invention : Nanorobotics for medical applications using NEMS and MEMS

		<ul> <li>(71)Name of Applicant :</li> <li>(71)Dr.S.Bathrinath</li> <li>Address of Applicant :Associate Professor, Department of</li> <li>Mechanical Engineering, Kalasalingam Academy of Research and</li> <li>Education, Krishnankoil, Tamilnadu, India, Pincode: 626126</li> </ul>
(51) International	:B82Y003000000, B81C0001000000, B81B0003000000, G09G0003200000,	2)Dr. P. Lakshmi Prasanna 3)Dr. A. Shanmuganathan 4)Dr. M.S.Srinivasa Rao 5)Mr. M. Kalyan Chakravarthi 6)Mr. Nellore Manoj Kumar Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr.S.Bathrinath
	A61B0017000000	Address of Applicant :Associate Professor, Department of
(86) International Application No Filing Date	:PCT// :01/01/1900	Mechanical Engineering, Kalasalingam Academy of Research and Education, Krishnankoil, Tamilnadu, India, Pincode: 626126
(87) International	: NA	2)Dr. P. Lakshmi Prasanna
Publication No		Address of Applicant : Associate Professor, School of
(61) Patent of Additio to Application Number	n:NA er:NA	Management, Presidency University, Bangalore, Karnataka, India Pincode: 560064
Filing Date	.1771	3)Dr. A. Shanmuganathan
(62) Divisional to	:NA	Address of Applicant :Professor, Department of Mechanical
Application Number	:NA	Engineering, NIMS University, Jaipur, Rajasthan, India, Pin Code : 303121
Filing Date		4) <b>Dr. M.S.Srinivasa Rao</b>
		Address of Applicant :Assistant Professor, Department of
		Mechanical Engineering, VNR Vignana Jyothi Institute of
		Engineering & Technology, Hyderabad, Bachupally, Telangana,
		India, Pincode: 500 090
		5)Mr. M. Kalyan Chakravarthi
		Address of Applicant :Senior Assistant Professor, School of
		Electronics Engineering, VIT-AP University, Amaravathi, Andhra
		Pradesh, India Pincode: 522237
		6)Mr. Nellore Manoj Kumar
		Address of Applicant :15-356, Gollapalem, Venkatagiri, SPSR Nellore District, Andhra Pradesh, India, Pincode -524132
		Nellore District, Andria Pradesh, India, Pincode -524152

(57) Abstract :

Nanotechnology and nanorobotics, this invention is of particular significance. The system is concerned with epigenetic robotics, which is applied to groups of nanorobots. Specific to nanoelectromechanical systems (NEMS) and microelectromechanical systems (MEMS), nanomechatronics, and bionanomechatronics, the innovation is directed toward developing these systems. Also covered by the invention are methods for coordinating collectives of nanorobots, synthetic nanorobotics, and synthetic bio nanorobotic. These methods include the creation of synthetic assemblies of NEMS and nanorobots and the assembly of synthetic machines at the nano-and micron-scales.

No. of Pages : 22 No. of Claims : 3