505103387 09/20/2018

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE: NEW ASSIGNMENT

NATURE OF CONVEYANCE: ASSIGNMENT

EPAS ID: PAT5150146

CONVEYING PARTY DATA

Name	Execution Date
SHUBHADEEP BHATTACHERJEE	09/13/2018
KOLLA LAKSHMI GANAPATHI	09/14/2018
SANGENENI MOHAN	09/18/2018
NAVAKANTA BHAT	09/18/2018

RECEIVING PARTY DATA

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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15990034

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ATTORNEY DOCKET NUMBER:	L030-0050US
NAME OF SUBMITTER:	LEANN M CARMAN
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DATE SIGNED:	09/20/2018

Total Attachments: 5

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> PATENT REEL: 046923 FRAME: 0545

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Serial Number	
Filing Date	
Inventorship	
Applicant	
Attorney's Docket No	
Client Docket No.	
THE DROCD AND ADD FITHING THE THERMHONIC MODE TO A NICITOR	

Title: PROGRAMMABLE TUNNEL THERMIONIC MODE TRANSISTOR

PATENT ASSIGNMENT

PARTIES TO THE ASSIGNMENT

Assignor(s):

Shubhadeep Bhattacherjee SF-10, Centre for Nano Science and Enginerring Indian Institute of Science Bangalore, India

Kolla Lakshmi Ganapathi FF-8, Centre for Nano Science and Engineering Indian Institute of Science Bangalore, India

Sangeneni Mohan TF-12, Centre for Nano Science and Engineering Indian Institute of Science Bangalore, India

Navakanta Bhat SF-5, Centre for Nano Science and Engineering Indian Institute of Science Bangalore, India

<u>Assignee:</u>

Indian Institute of Science Office of Intellectual Property and Technology Licensing Bangalore, Karnataka, India, 560 012

AGREEMENT

WHEREAS, ASSIGNOR(S) (listed above) are inventor(s) of an invention entitled "PROGRAMMABLE TUNNEL THERMIONIC MODE TRANSISTOR" for which:

PATENT REEL: 046923 FRAME: 0546

Attorney Docket No. L030-0050US Client Docket No. PD024920US-CON

a provisional application for United States Letters Patent was filed on	and
was given U.S. Serial Noand/or	
☑ a non-provisional application for United States Letters Patent was:	

filed on 5/25/2018 and was given U.S. Serial No. 15/990,034; or filed concurrently herewith. Assignors hereby authorize and request ASSIGNEE's legal representatives, of Lee & Hayes, PLLC, 601 W Riverside Ave, Suite 1400, Spokane, Washington 99201, who are associated with customer number 29150, to insert in the caption above the serial

number and filing date of the patent application when known.

WHEREAS, Indian Institute of Science (hereinafter referred to as ASSIGNEE), having a place of business at Office of Intellectual Property and Technology Licensing, Bangalore, Karnataka, India 560 012, desires to acquire the entire right, title and interest in and to the invention and in and to any letters patent that may be granted in the United States and in any and all foreign countries;

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR(S) hereby sell, assign and transfer unto ASSIGNEE, the entire right, title and interest in and to said application and any and all letters patent which may be granted for said invention in the United States of America and its territorial possessions and in any and all foreign countries, and in any and all divisions, reissues and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said United States application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, said invention, application and all letters patent on said invention to be held and enjoyed by ASSIGNEE and its successors and assigns for their use and benefit and of their successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNOR(S) had this assignment, transfer and sale not been made. ASSIGNOR(S) hereby authorize and request the Commissioner of Patents and Trademarks to issue all letters patent on said

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patent on said invention, for litiga-	ition regarding said letters patent, or for the purpose of
protecting title to said invention or le	Itters patent.
13/9/18 Date	Shubhadoep Bhattacherjee
Date	Sangeneni Mohan
 Date	Navakanta Bhat
Date	Kolla Lakshmi Ganapathi

Attorney Docket No.: L030-0050US Client Docket No.: PD024920US-CON

patent on said invention, for litigation regarding said letters patent, or for the purpose of protecting title to said invention or letters patent.

Date

18-07-2018

Date

18-09-2018

Date

Date

Shubhadeep Bhattachenee

Sangeneni Mohan

Navakanta Shat

Kolla Lakshmi Ganapathi

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invention to ASSCNEE. ASSIGNOR(S) agree to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters patent on said invention, for litigation regarding said letters patent, or for the purpose of protecting title to said invention or letters patent.

	-
Date	Shubhadeep Bhattachegee
Date	Sanyeneni Mohan
	and the state of t
Date	Navakanta Bhat
	CONTRACTOR CONTRACTOR
14/02/18	#s k except his
Date	
	Kolla Lakstuni Garuspathi