#### 11/05/2018 505174944

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5221712

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
ISHAN SAHU	12/28/2017
SNEHASIS BANERJEE	12/28/2017
TANUSHYAM CHATTOPADHYAY	12/28/2017
ARPAN PAL	12/28/2017
UTPAL GARAIN	12/28/2017

### RECEIVING PARTY DATA

Name:	TATA CONSULTANCY SERVICES LIMITED
Street Address:	NIRMAL BUILDING, 9TH FLOOR
Internal Address:	NARIMAN POINT
City:	MUMBAI
State/Country:	INDIA
Postal Code:	400021

# **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	16179771

# **CORRESPONDENCE DATA**

Fax Number: (202)408-4400

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: (202) 408-4000

Email: monica.freeman@finnegan.com

TATA CONSULTANCY SERVICES LTD/FINNEGAN **Correspondent Name:** 

901 NEW YORK AVE., NW Address Line 1: Address Line 4: WASHINGTON, D.C. 20001

ATTORNEY DOCKET NUMBER:	13178.0402
NAME OF SUBMITTER:	MONICA J. FREEMAN
SIGNATURE:	/monicajfreeman/
DATE SIGNED:	11/05/2018
	This document serves as an Oath/Declaration (37 CFR 1.63).

**PATENT REEL: 047410 FRAME: 0230** 505174944

# **Total Attachments: 2**

source=13178-0402\_DecAsst#page1.tif source=13178-0402\_DecAsst#page2.tif

> PATENT REEL: 047410 FRAME: 0231

# ASSIGNMENT AND DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION

#### ASSIGNMENT:

WHEREAS I/We, the below named inventor(s), (hereinafter referred to as Assignor(s)), have made an invention entitled:

SYSTEMS AND METHODS FOR OBTAINING OPTIMAL MOTHER WAVELETS FOR FACILITATING MACHINE LEARNING TASKS

for which I/WE executed an application for United States Letters Patent concurrently herewith; and

WHEREAS, \_\_Tata Consultancy Services Limited
a corporation of \_\_India
whose post office address is \_\_Nirmal Building, 9th Floor, Nariman Point, Mumbai 400021, Maharashtra, India

(hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention in all countries throughout the world, and in and to the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, I/We, as Assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, my/our entire right, title, and interest in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof, as well as all rights to claim priority on the basis of this application in any foreign country, and all applications for Letters Patent which may hereafter be filed for this invention in any foreign country and all Letters Patent which may be granted on this invention in any foreign country, and all extensions, renewals, and reissues thereof; and I/We hereby authorize and request the Director of the United States Patent and Trademark Office and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I/WE HEREBY covenant that I/We have the full right to convey the interest assigned by this Assignment, and I/We have not executed and will not execute any agreement in conflict with this Assignment;

AND, I/WE HEREBY further covenant and agree that I/We will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to me/us respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns.

AND, IWE HEREBY authorize an	d request that the attorneys having	prower of Attorney in this application, inser
here in parentheses (Application No	, filed	) the filing date and
application number of said application whe	n known.	

### **DECLARATION:**

As a named inventor below, I hereby declare that: (1) This declaration is directed to the above-identified application; (2) the above-identified application was made or authorized to be made by me; (3) my residence and mailing address are as stated below next to my name; and (4) I believe I am an original inventor or an original joint inventor of a claimed invention in the application. I hereby acknowledge that any willful false statements made in this declaration are punishable by fine or imprisonment of not more than five (5) years, or both, under section 1001 of Title 18 of the United States Code.

As a below named inventor, I have reviewed and understand the contents of the application, including the claims, and am aware of the duty to disclose to the US PTO all information known to me to be material to patentability as defined in 37C.F.R. § 1.56.

[IDF-1233190-002-IN]

PATENT REEL: 047410 FRAME: 0232

### Authorization To Permit Access To Application by Participating Offices:

If the seal the underlayed recongrate the UPF Clauston's biproved the European Father Office EFF), the Japan Patent Office IFFO to Koneyon related using Property Office in POP to Koneyon related using proving in the above developed stated application in Reconstruction of the developed patent application. Sea 37 CFFO 1970 of the above developed patent application in Reconstruction of the Applicant developed patent application of the Applicant developed patent application. Sea 37 CFFO 1970 of the article developed patent application is the Applicant of the Applicant on Sea 37 CFFO 1970 of the article developed patent application. Sea 47 to the application of the Applicant of the Applicant on Sea 47 to the Applicant of the Applica

is accompany with 37 CFR 1.14(c), access may be provided to information concerning the case of fairing the Accordization to Permit Access to Application by Participating Offices

IN TESTIMONY WHEREOF I We have hereunto set our hands

944. <b>8</b> 54	Johns Color	28 - DEC - 2017
Bergal India	Pot - 18712 New York, Reprint Actions - 700100 Vises	British (County)
TANK TIES COMMON	Salasis Paraga	28 DEC-2017
Top Consider, Service Links (Subject Couper) Sergel and	Plot - IPM2 New York, Reported Address - 700160 Week	RESILEMENT Courty)
CHATTOPACHTAY TANANGS		28 - 86 C - 2017
Maria (1996) (1996) Top Consideracy Services (1996) (1996) (1996) (1996) Bengal (1998)	Por - 15/12 New Yours Augumen Achieve - 700/60 Vises	Residence County
- A. Agai		28-046-3078
Top Charles Service Links Bulling II Coupers Serge 198	Plat - 18712 New Town Augustus Holiuss - 200180 (1966)	RESIDENCE County
GARANI (198	They down	28 - 850 - 2013
SALURO ALURE Indun Compressi melkara 201 Bernschoons (nors Powe A	okasa - 70700 New Bergal Indo	Canak

1008 - 233 (MARCE - N.)

PATENT REEL: 047410 FRAME: 0233

**RECORDED: 11/05/2018**