#### 503836012 05/20/2016

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3882660

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
APURBAA MALLIK	05/12/2016
BROJESHWAR BHOWMICK	05/05/2015
ANIRUDDHA SINHA	05/12/2016
AISHWARYA VISVANATHAN	05/06/2016
SUDEB DAS	05/09/2016

### 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:	15154476

# **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

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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:	13178.0096-00000
NAME OF SUBMITTER:	MONICA J. FREEMAN
SIGNATURE:	/monicajfreeman/
DATE SIGNED:	05/20/2016
	This document serves as an Oath/Declaration (37 CFR 1.63).

**PATENT** REEL: 038657 FRAME: 0449

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Total Attachments: 10	
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PATENT REEL: 038657 FRAME: 0450

### ASSIGNMENT:

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

SYSTEM AND METHOD FOR ESTIMATING THREE-DIMENSIONAL MEASUREMENTS OF PHYSICAL OBJECTS 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, 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, I/WE HEREBY authorize and request to	that the attorneys having	Power of Attorney in this :	application, insert
here in parentheses (Application No.	, filed	) the filing	g date and
application number of said application when 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 - 763612-004 - C]

If checked, the undersigned hereby grants the USPTO authority to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the World Intellectual Property Office (WIPO), and any other intellectual property offices in which a foreign application claiming priority to the above-identified patent application is filed access to the above-identified patent application. See 37 CFR 1.14(c) and (h). This box should not be checked if the Applicant does not wish the EPO, JPO, KIPO, WIPO, or other intellectual property office in which a foreign application claiming priority to the above-identified application is filed to have access to the above-identified patent application.

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In accordance with 37 CFR 1.14(c), access may be provided to information concerning the date of filing the Authorization to Permit Access to Application by Participating Offices.

IN TESTIMONY WHEREOF, I/We have hereunto set our hands.

FULL NAME OF SOLE OR FIRST ASSIGNOR     MALLIK, Apurbaa	assignor's signature i Abueleaa Vallik	DATE 12/05/2016
MAILING ADDRESS Tata Consultancy Services Limited, Building 1B, Ecospace Plot IIF/ 12, New Town, Rajarhat, Kolkata 700156, West Bengal, India		RESIDENCE India
2. FULL NAME OF SECOND ASSIGNOR, IF ANY BHOWMICK, Brojeshwar	ASSIGNOR'S SIGNATURE	DATE
MAILING ADDRESS Tata Consultancy Services Limited, Building 1B, Ecospace Plot IIF/ 12, New Town, Rajarhat, Kolkata 700156, West Bengal, India		RESIDENCE India
3. FULL NAME OF THIRD ASSIGNOR, IF ANY SINHA, Aniruddha	ASSIGNOR'S SIGNATURE	DATE
MAILING ADDRESS Tata Consultancy Services Limited. Building 1B, Ecospace Plot IIF/ 12, New Town, Rajarhat, Kolkata 700156, West Bengal, India		RESIDENCE India
4. FULL NAME OF FOURTH ASSIGNOR, IF ANY VISVANATHAN, Aishwarya	ASSIGNOR'S SIGNATURE	DATE
MAILING ADDRESS Tata Consultancy Services Limited, SJM Towers, 18, Shes Gandhinagar. Bangalore 560 009, Karnataka, India	hadri Road	RESIDENCE India
5. FULL NAME OF FIFTH ASSIGNOR, IF ANY DAS, Sudeb	ASSIGNOR'S SIGNATURE	DATE
MAILING ADDRESS Tata Consultancy Services Limited, Building 1B, Ecospace Plot IIF/ 12, New Town, Rajarhat, Kolkata 700156, West Bengal, India		RESIDENCE India

[IDF 763612-004 - C]

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(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/Ws 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 destrable 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.

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[BDF -- 763612-004 -- C]

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1. FULL NAME OF SOLE OR FIRST ASSIGNOR MALLIK. Арштраз	ASSIGNOR'S SIGNATURE	DATE
MAILING ADDRESS Tata Consultancy Services Limited, Building 18. Ecospace Plot IIF/ 12, New Town, Rajarhat. Kolkata 700156, West Bengal, India		RESIDENCE India
2. FULL NAME OF SECOND ASSIGNOR, IF ANY BHOWMICK, Brojeshwar	ASSIGNOR'S SIGNATURE	DATE
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3. FULL NAME OF THIRD ASSIGNOR, IF ANY SINHA, Aniruddha	ASSIGNORS SIGNATURE	DATE 12-May-20/6
MAILING ADDRESS Tata Consultancy Services Limited, Building 18, Ecospace Plot IIF/ 12, New Town, Rajarhat, Kolkata 700156; West Bengal, India		RESIDENCE V India
4. FULL NAME OF FOURTH ASSIGNOR, IF ANY VISVANATHAN, Aishwarya	ASSIGNOR'S SIGNATURE	DATE
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5. FULL NAME OF FIFTH ASSIGNOR, IF ANY DAS, Sudeb	ASSIGNOR'S SIGNATURE	DATE
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IN TESTIMONY WHEREOF, I/We have hereunto set our hands.

***************************************	***************************************	
1. FULL NAME OF SOLE OR FIRST ASSIGNOR MALLIK, Apurbae	ASSIGNOR'S SIGNATURE	DATE
MAILING ADDRESS	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	RESIDENCE
Tata Consultancy Services Limited,		india
Building 1B, Ecospace Plot IIF/ 12,		11,000
New Town, Rajarhat, Kolkata 700156.		
West Bengal, India		
2. FULL NAME OF SECOND ASSIGNOR, IF ANY	ASSIGNOR'S SIGNATURE	DATE
SHOWMICK, Broleshwar	THOUSE COMMINENT WAY	8575155
SOCIAL PROPERTY OF CONTRACTOR		
MAIUNG ADDRESS	<u> </u>	RESIDENCE
Tata Consultancy Services Limited.		India
Building 1B, Ecospace Plot IIF/ 12,		
New Town, Raisrhat, Kolkata 700156.		
West Bengal, India		
CACST OGINBAL TITLE		
3. FULL NAME OF THIRD ASSIGNOR, IF ANY	ASSIGNOR'S SIGNATURE	DATE
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Quin's framesonio		
MAILING ADDRESS	······································	RESIDENCE
Tata Consultancy Services Limited.		India
Building 1B, Ecospace Plot IIF/ 12,		
New Town, Rajamat, Kolketa 700156,		
West Bengal, India		
Cincia Santa Const		
4. FULL NAME OF FOURTH ASSIGNOR, IF ANY	ASSIGNOR'S SIGNATURE	DATE
VISVANATHAN, Aishwarya		6/5/2016
2 2 5 1 2 2 2 1 1 <del>2</del> 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		{
MAILING ADDRESS	*	RESIDENCE
Tata Consultancy Services Limited, SJM Towers, 18, Shest	nedri Road	India
Gandhinagar, Bangakwe 560 009, Kamataka, India		
5. FULL NAME OF FIFTH ASSIGNOR, IF ANY	ASSIGNOR'S SIGNATURE	DATE
DAS, Sudeb		
entrane à reconstruir :		
MAILING ADDRESS		RESIDENCE
Tata Consultancy Services Limited.		India
Building 1B, Ecospace Plot IIF/ 12,		
New Town, Raismat, Yolkata 700156.		
West Bengal, India		
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[IDF - 763612-004 - C]

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PATENT REEL: 038657 FRAME: 0458

### ASSIGNMENT:

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

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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.

 $\{300^{\circ}-7636124004+C\}$ 

If checked, the undersigned hereby grants the USPTO authority to provide the European Patent Office (EPO), the Japan Patent Office (UPO), the Korean intellectual Property Office (KIPO), the World intellectual Property Office (WIPO), and any other intellectual property offices in which a foreign application claiming priority to the above-identified patent application is filled access to the above-identified patent application. See 37 CFR 1.14(c) and (h). This box should not be checked if the Applicant does not wish the EPO, JPO, KIPO, WIPO, or other intellectual property office in which a foreign application claiming priority to the above-identified application is filed to have access to the above-identified patent application.

In accordance with 37 CFR 1.14(h)(3), access will be provided to a copy of the above-identified patent application with respect to 1) the above-identified patent application dains priority under 35 U.S.C. 113(a)-(d) if a copy of the foreign application that satisfies the certified copy requirement of 37 CFR 1.55 has been filled in the above-identified patent application, and 3) any U.S. application-as-filed from which benefit is sought in the above-identified patent application.

In accordance with 37 CFR 1 14(c), access may be provided to information concerning the date of filing the Authorization to Permit Access to Application by Participating Offices.

IN TESTIMONY WHEREOF, I'We have hereunto set our hands.

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