505157611 10/24/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5204378

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SUBHRANSHU KUMAR SAHOO	06/28/2018
SARJINDER SINGH SETHI	06/27/2018
PRASANTA PANDA	06/28/2018
ANJUSREE RAMAVARMA	11/16/2016
SHAJEER KOOTALA BASHEER	11/16/2016

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:	16022079

CORRESPONDENCE DATA

505157611

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

Correspondent Name: TATA CONSULTANCY SERVICES LTD/FINNEGAN

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

ATTORNEY DOCKET NUMBER:	13178.0362
NAME OF SUBMITTER:	MONICA J. FREEMAN
SIGNATURE:	/monicajfreeman/
DATE SIGNED:	10/24/2018
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 6 source=13178-0362_DecAsst#page1.tif source=13178-0362_DecAsst#page2.tif source=13178-0362_DecAsst#page3.tif source=13178-0362_DecAsst#page4.tif source=13178-0362_DecAsst#page5.tif source=13178-0362_DecAsst#page6.tif

ASSIGNMENT AND DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION

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WHEREAS I/We, the below named inventor(s), (hereinafter referred to as Assignor(s)), have made an invention entitled:
SYSTEMS AND METHODS TO ANALYZE OPEN SOURCE COMPONENTS IN SOFTWARE PRODUCTS
for which I/WE executed an application for United States Letters Patent concurrently herewith; and
CONTROL CONTROL SIDE OF CONTROL STATES AND CONTROL CON
WHEREAS, Tata Consultancy Services Limited
The second of th
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/Ve, 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, IAVE HEREBY covenant that IAVe have the full right to convey the interest assigned by this Assignment, and IAVe have not executed and will not execute any agreement in conflict with this Assignment;

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

AND, I/WE HEREBY further coveriant 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 reques	st that the attorneys having Pow	er of Attorney in this application, insert
here in parentheses (Application No) the filing date and
application number of said application when known	B:	

DECLARATION:

Assignment:

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-206432-008-IN)

Authorization To Permit Access To Application by Participating Offices:

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, 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-as-filed; 2) any foreign application to which the above-identified patent application claims priority under 35 U.S.C. 119(a)-(d) if a copy of the foreign application that satisfies the certified copy requirement of 37 CFR 1.55 has been filed 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.

1. FULL NAME OF SOLE OR FIRST ASSIGNOR SAHOO, Subhrenshu Kurnar	ASSIGNOR'S SIGNATURE	DATE
MAILING ADDRESS Tata Consultancy Services Limited 17/ITES Special Economic Zone, Plot - 35, Chandaka inc Bhubaneswar - 751024, Orissa, India	Justrial Estate, Pafia, Chandrasekharpur,	RESIDENCE India
2. FULL NAME OF SECOND ASSIGNOR, IF ANY SETHI, Sarjinder Singh	ASSIGNOR'S SIGNATURE	DATE 27-Jun-2018
MAILING ADDRESS Teta Consultancy Services Limited (TCS House) Raveline Street 21 DS Marg, Fort Mumbai	Mumbai - 400001, Maharashtra, India	RESIDENCE India
3. FULL NAME OF THIRD ASSIGNOR, IF ANY PANDA, Prasanta	ASSIGNOR'S SIGNATURE	DATE
MAILING ADDRESS Tata Consultancy Services Limited IT/ITES Special Economic Zone, Plot - 35, Chandaka Inc Bhubaneswar - 751024, Orissa, India	dustrial Estate, Patia, Chandrasekharpur,	RESIDENCE India
4. FULL NAME OF FOURTH ASSIGNOR, IF ANY RAMAVARMA, Anjustee	ASSIGNOR'S SIGNATURE	DATE
MAILING ADDRESS Tata Consultancy Services Limited TCS Centre-SEZ Infopark Special Economic Zone, Kakk	anad, Kusumagiri Post, Kochi - 682030, Kerala, India	RESIDENCE India
5. FULL NAME OF FIFTH ASSIGNOR, IF ANY BASHEER, Shajeer Kootala	ASSIGNOR'S SIGNATURE	DATE
MAILING ADDRESS Teta Consultancy Services Limited TCS Centre-SEZ Intopark Special Economic Zone, Kakk	anad, Kusumagiri Post, Kochi - 682030, Kerala, India	RESIDENCE India

Page 2 of 2 P-IDF-206432-006

ASSIGNMENT AND DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION

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		ave made an invention entitled:

VVHEREAS I/We, the below named inventor(s), (hereinafter referred to as Assignor(s)), have made an invention entitled:
SYSTEMS AND METHODS TO ANALYZE OPEN SOURCE COMPONENTS IN SOFTWARE PRODUCTS 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, IAVE HEREBY further coveriant 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 that the attorneys having Power of Attorney in this application, insert here in parentheses (Application No
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

[IDF-206432-008-m]

in 37C.F.R. § 1.56.

Authorization To Permit Access To Application by Participating Offices:

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.

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-as-filled; 2) any foreign application to which the above-identified patent application claims priority under 35 U.S.C. 119(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-filled 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.

T. FULL NAME OF SOLE OR FIRST ASSIGNOR SAHOO, Subhranshu Kumar	ASSIGNORS SIGNATURE Succession Ann Societa	CATE TO THE STATE
MAILING ADDRESS Tata Consultancy Services Limited IT/ITES Specia: Economic Zone, Plot - 35, Chandaka Ir Bhubaneswar - 751024, Orissa, India		RESIDENCE India
FULL NAME OF SECOND ASSIGNOR, IF ANY SETHI, Serjinder Singh	ASSIGNOR'S SIGNATURE	CATE
MAILING ADORESS Tata Consultancy Services Limited (TCS House) Raveline Street 21 DS Marg, Fort Mumba	si Mumbai - 400001, Maharashtra, India	RESIDENÇE India
3 FULL NAME OF THIRD ASSIGNOR, IF ANY PANDA, Prasanta	ASSIGNATURE PARTIE	OATE 34 2018
MAILING ADDRESS Tata Consultancy Services Limited IT/ITES Special Economic Zone, Plot - 35, Chandaka In Bhubaneswar - 751024, Orissa, India		RESIDENCE India
4 FULL NAME OF FOURTH ASSIGNOR, IF ANY RAMAVARMA, Anjusree	ASSIGNOR'S SIGNATURE	DATE
MAILING ADDRESS Tata Consultancy Services Limited TCS Centre-SEZ Infopark Special Economic Zone, Kakk	kanad, Kusumagiri Post, Kochi - 682030, Kerala India	RESIDENCE India
5, FULL NAME OF FIFTH ASSIGNOR, IF ANY BASHEER, Shajeer Kootala	ASSIGNOR'S SIGNATURE	DATE
MAILING ADDRESS Tata Consultancy Services Limited TCS Centre-SEZ Infoperk Special Economic Zone, Kakk	tanad, Kusumagin Post, Kochi - 682030, Kerala, India	RESIDENCE India

Page 2 of 2 P-IDF-206432-006

ASSIGNMENT AND DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION

ASSIGNMENTS			

WHEREAS I/We, the below named inventor(s), (hereinafter referred to as Assignor(s)), have made an invention ent	WHEREAS IAW	e, the balow na	med inventor(s).	thereinafter	referred to as	Assignor(s)).	have made an	invention	entitled
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WHEREAS I/We, the below named inventor(s), (hereinafter referred to as Assignor(s)), have made an invention entitled:	
SYSTEMS AND METHODS TO ANALYZE OPEN SOURCE COMPONENTS IN SOFTWARE PRODUCTS	
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 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, IWE HEREBY covenant that IWe have the full right to convey the interest assigned by this Assignment, and IWe have not executed and will not execute any agreement in conflict with this Assignment;	
AND, I/WE HEREBY further coveriant 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 caths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the Unlied 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 that the attorneys having Power of Attorney in this application, insert here in parentheses (Application No	

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.

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(IDF-206432-008-m)

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

FULL NAME OF SOLE OR FIRST ASSIGNOR SAHOO, Subiranshu Kumar	ASSIGNOR'S SIGNATURE	DATE
MAILING ADDRESS Tata Consultancy Services Limited IT/ITES Special Economic Zone, Piot - 35, Chandaka In Bhubaneswar - 751024, Orissa, India	dustrial Estate, Patia, Chandrasekharpur,	RESIDENCE India
2. FULL NAME OF SECOND ASSIGNOR, IF ANY SETHI, Sarjinder Singh	ASSIGNOR'S SIGNATURE	DATE
MAILING ADDRESS Tata Consultancy Services Limited (TCS House) Raveline Street 21 DS Marg, Fort Mumba	ai Mumbai - 400001, Maharashtra, India	RESIDENCE India
3. FULL NAME OF THIRD ASSIGNOR, IF ANY PANDA, Presente	ASSIGNOR'S SIGNATURE	DATE
MAILING ADDRESS Tata Consultancy Services Limited IT/ITES Special Economic Zone, Plot - 35, Chandaka Ir Bhubaneswar - 751024, Orissa, India	ndustrial Estate, Patía, Chandrasekharpur,	RESIDENCE India
4. FULL NAME OF FOURTH ASSIGNOR, IF ANY RAMAVARMA, Anjusree	ASSIGNOR'S SIGNATURE	DATE 16 - Nov- 2016
MAILING ADDRESS Tata Consultancy Services Limited TCS Centre-SEZ Infopark Special Economic Zone, Kak	rkanad Kusumadiri Post, Kochi - 682030, Kerala, India	RESIDENCE India
5. FULL NAME OF FIFTH ASSIGNOR, IF ANY BASHEER, Shajeer Kootata	ASSIGNOR'S SIGNATURE	DATE 16-NOV-2016
MAILING ADDRESS Tata Consultancy Services Limited TCS Centre-SEZ Infopark Special Economic Zone, Kal	kanad, Kusumagiri Post, Kochi - 682030, Kerala, India	RESIDENCE India

Page 2 of 2 P-IDF-206432-006

RECORDED: 10/24/2018