

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT3712168

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
MICHELLE EFFROS	01/25/2016
TRACEY C. HO	01/20/2016
SHIRIN JALALI	01/21/2016
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	CALIFORNIA INSTITUTE OF TECHNOLOGY
<b>Street Address:</b>	1200 EAST CALIFORNIA BOULEVARD
<b>Internal Address:</b>	MAIL STOP 6-32
<b>City:</b>	PASADENA
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	91125
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	13364195
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(949)852-0004
<i>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.</i>	
<b>Phone:</b>	9498520000
<b>Email:</b>	pair@kppb.com
<b>Correspondent Name:</b>	KPPB LLP
<b>Address Line 1:</b>	2400 E. KATELLA AVENUE
<b>Address Line 2:</b>	SUITE 1050
<b>Address Line 4:</b>	ANAHEIM, CALIFORNIA 92806
<b>ATTORNEY DOCKET NUMBER:</b>	C9-02026
<b>NAME OF SUBMITTER:</b>	KATRINA LEE
<b>SIGNATURE:</b>	/Katrina Lee/
<b>DATE SIGNED:</b>	01/26/2016
<b>Total Attachments: 10</b>	
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**RECORDATION FORM COVER SHEET**  
**PATENTS ONLY**

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

**1. Name of conveying party(ies)**

Michelle Effros; Tracey C. Ho; Shirin Jalali

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

**3. Nature of conveyance/Execution Date(s):**

Execution Date(s) Jan 25, 2016; Jan 20, 2016; Jan 21, 2016

☒ Assignment

☐ Merger

☐ Security Agreement

☐ Change of Name

☐ Joint Research Agreement

☐ Government Interest Assignment

☐ Executive Order 9424, Confirmatory License

☐ Other \_\_\_\_\_

**2. Name and address of receiving party(ies)**

Name: California Institute of Technology

Internal Address: Mail Stop 6-32

Street Address: 1200 E. California Boulevard

City: Pasadena

State: CA

Country: US Zip: 91125

Additional name(s) & address(es) attached? ☐ Yes ☒ No

**4. Application or patent number(s):**

☐ This document serves as an Oath/Declaration (37 CFR 1.63).

A. Patent Application No.(s)

B. Patent No.(s)

13/364,195

Additional numbers attached? ☐ Yes ☒ No

**5. Name and address to whom correspondence concerning document should be mailed:**

Name: KPPB LLP

Internal Address: Suite 1050

Street Address: 2400 E. Katella Avenue

City: Anaheim

State: CA Zip: 92806

Phone Number: 949.852.0000

Docket Number: C9-02026

Email Address: pair@kppb.com

**6. Total number of applications and patents involved: 1**

**7. Total fee (37 CFR 1.21(h) & 3.41) \$ \_\_\_\_\_**

☐ Authorized to be charged to deposit account

☐ Enclosed

☐ None required (government interest not affecting title)

**8. Payment Information**

Deposit Account Number \_\_\_\_\_

Authorized User Name \_\_\_\_\_

**9. Signature:** /David J. Bailey/

January 26, 2016

Signature

Date

David J. Bailey

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

**10**

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:  
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

## **ASSIGNMENT**

WHEREAS, WE, Michelle Effros, Tracey C. Ho, and Shirin Jalali, have made certain new and useful inventions and improvements for which an application for Letters Patent of the United States entitled SYSTEMS AND METHODS OF NETWORK ANALYSIS AND CHARACTERIZATION was filed February 1, 2012 and having been assigned Application No. 13/364,195;

WHEREAS, California Institute of Technology, a corporation organized and existing under and by virtue of the laws of the State of California, and having an office and place of business at 1200 East California Boulevard, Mail Stop 6-32, Pasadena, California 91125 (hereinafter "Assignee"), is desirous of acquiring the entire right, title and interest in and to said inventions, improvements and application and in and to the Letters Patent to be obtained therefore;

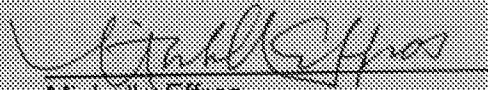
NOW, THEREFORE, to all whom it may concern, be it known that for good and valuable consideration, the receipt and sufficiency whereof is hereby acknowledged, we have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto said Assignee, its successors or assigns, the entire right, title and interest for all countries in and to all inventions and improvements disclosed in the aforesaid application, and in and to the said application, all divisions, continuations, continuations-in-part, or renewals thereof, all Letters Patent which may be granted there from, and all reissues or extensions of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the said inventions and improvements, including an assignment of all rights under the provisions of the International Convention, and all Letters Patent of foreign countries which may be granted there from; and we do hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent for the aforesaid inventions and improvements to the said Assignee as the assignee of the entire right, title and interest in and to the same, for the use of the said Assignee, its successors and assigns.

AND, for the consideration aforesaid, we do hereby agree that we and our executors and legal representatives will make, execute and deliver any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said Assignee, its successors and representatives all

facts known to us relating to said improvements and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable more effectually to secure to and vest in said Assignee, its successors or assigns the entire right, title and interest in and to the said improvements, inventions, applications, Letters Patent, rights, titles, benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

AND, furthermore, we covenant and agree with said Assignee, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by me and that full right to convey the same as herein expressed is possessed by me.

IN WITNESS WHEREOF, I have hereunto set my hand this 25 day of January, 2012



Michelle Effros  
961 E. California Blvd. #220  
Pasadena, CA 91106

WITNESS: \_\_\_\_\_

Print name \_\_\_\_\_

\*\*\*\*\*

IN WITNESS WHEREOF, I have hereunto set my hand this \_\_\_\_ day of \_\_\_\_\_, 20\_\_.

\_\_\_\_\_  
Tracey C. Ho  
1107 Laguna Road  
Pasadena, CA 91105

WITNESS:\_\_\_\_\_

Print name\_\_\_\_\_

\*\*\*\*\*

IN WITNESS WHEREOF, I have hereunto set my hand this \_\_\_\_ day of \_\_\_\_\_, 20\_\_.

\_\_\_\_\_  
Shirin Jalali  
168 N. Wilson Ave., Apt. 207  
Pasadena, CA 91106

WITNESS:\_\_\_\_\_

Print name\_\_\_\_\_

\*\*\*\*\*

## **ASSIGNMENT**

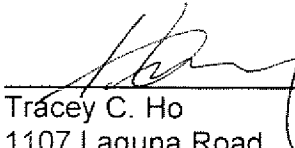
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NOW, THEREFORE, to all whom it may concern, be it known that for good and valuable consideration, the receipt and sufficiency whereof is hereby acknowledged, we have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto said Assignee, its successors or assigns, the entire right, title and interest for all countries in and to all inventions and improvements disclosed in the aforesaid application, and in and to the said application, all divisions, continuations, continuations-in-part, or renewals thereof, all Letters Patent which may be granted there from, and all reissues or extensions of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the said inventions and improvements, including an assignment of all rights under the provisions of the International Convention, and all Letters Patent of foreign countries which may be granted there from; and we do hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent for the aforesaid inventions and improvements to the said Assignee as the assignee of the entire right, title and interest in and to the same, for the use of the said Assignee, its successors and assigns.

AND, for the consideration aforesaid, we do hereby agree that we and our executors and legal representatives will make, execute and deliver any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said Assignee, its successors and representatives all

IN WITNESS WHEREOF, I have hereunto set my hand this 20 day of Jan, 2016

  
\_\_\_\_\_  
Tracey C. Ho  
1107 Laguna Road  
Pasadena, CA 91105

WITNESS: Tzy-hey Chang

Print name TZY-HEY CHANG

\*\*\*\*\*

IN WITNESS WHEREOF, I have hereunto set my hand this \_\_\_\_ day of \_\_\_\_\_, 20\_\_.

\_\_\_\_\_  
Shirin Jalali  
168 N. Wilson Ave., Apt. 207  
Pasadena, CA 91106

WITNESS: \_\_\_\_\_

Print name \_\_\_\_\_

\*\*\*\*\*



IN WITNESS WHEREOF, I have hereunto set my hand this \_\_\_\_ day of \_\_\_\_\_, 20\_\_.

\_\_\_\_\_  
Tracey C. Ho  
1107 Laguna Road  
Pasadena, CA 91105

WITNESS:\_\_\_\_\_

Print name\_\_\_\_\_

\*\*\*\*\*

IN WITNESS WHEREOF, I have hereunto set my hand this \_\_\_\_ day of \_\_\_\_\_, 20\_\_.

\_\_\_\_\_  
Shirin Jalali  
168 N. Wilson Ave., Apt. 207  
Pasadena, CA 91106

WITNESS:\_\_\_\_\_

Print name\_\_\_\_\_

\*\*\*\*\*

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NOW, THEREFORE, to all whom it may concern, be it known that for good and valuable consideration, the receipt and sufficiency whereof is hereby acknowledged, we have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto said Assignee, its successors or assigns, the entire right, title and interest for all countries in and to all inventions and improvements disclosed in the aforesaid application, and in and to the said application, all divisions, continuations, continuations-in-part, or renewals thereof, all Letters Patent which may be granted there from, and all reissues or extensions of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the said inventions and improvements, including an assignment of all rights under the provisions of the International Convention, and all Letters Patent of foreign countries which may be granted there from; and we do hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent for the aforesaid inventions and improvements to the said Assignee as the assignee of the entire right, title and interest in and to the same, for the use of the said Assignee, its successors and assigns.

AND, for the consideration aforesaid, we do hereby agree that we and our executors and legal representatives will make, execute and deliver any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said Assignee, its successors and representatives all

facts known to us relating to said improvements and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable more effectually to secure to and vest in said Assignee, its successors or assigns the entire right, title and interest in and to the said improvements, inventions, applications, Letters Patent, rights, titles, benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

AND, furthermore, we covenant and agree with said Assignee, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by me and that full right to convey the same as herein expressed is possessed by me.

IN WITNESS WHEREOF, I have hereunto set my hand this \_\_\_\_ day of \_\_\_\_\_, 20\_\_.

\_\_\_\_\_  
Michelle Effros  
961 E. California Blvd. #220  
Pasadena, CA 91106

WITNESS: \_\_\_\_\_

Print name \_\_\_\_\_

\*\*\*\*\*

IN WITNESS WHEREOF, I have hereunto set my hand this \_\_\_\_ day of \_\_\_\_\_, 20\_\_.

\_\_\_\_\_  
Tracey C. Ho  
1107 Laguna Road  
Pasadena, CA 91105

WITNESS: \_\_\_\_\_

Print name \_\_\_\_\_

\*\*\*\*\*

IN WITNESS WHEREOF, I have hereunto set my hand this 21 day of Jan., 2016.

  
\_\_\_\_\_  
Shirin Jalali  
168 N. Wilson Ave., Apt. 207  
Pasadena, CA 91106

WITNESS: \_\_\_\_\_

Print name \_\_\_\_\_

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