

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT5710151

|   |                                |
|---|--------------------------------|
| <b>SUBMISSION TYPE:</b>   | NEW ASSIGNMENT                 |
| <b>NATURE OF CONVEYANCE:</b>  | ASSIGNMENT                     |
| <b>CONVEYING PARTY DATA</b>   |                                |
| <b>Name</b>   | <b>Execution Date</b>          |
| LUAN TANG   | 08/21/2019                     |
| JINGCHAO NI   | 08/20/2019                     |
| WEI CHENG   | 08/19/2019                     |
| HAIFENG CHEN  | 09/04/2019                     |
| DONGJIN SONG  | 09/04/2019                     |
| BO ZONG   | 08/20/2019                     |
| WENCHAO YU  | 08/20/2019                     |
| <b>RECEIVING PARTY DATA</b>   |                                |
| <b>Name:</b>  | NEC LABORATORIES AMERICA, INC. |
| <b>Street Address:</b>  | 4 INDEPENDENCE WAY, SUITE 200  |
| <b>City:</b>  | PRINCETON                      |
| <b>State/Country:</b>   | NEW JERSEY                     |
| <b>Postal Code:</b>   | 08540                          |
| <b>PROPERTY NUMBERS Total: 1</b>  |                                |
| <b>Property Type</b>  | <b>Number</b>                  |
| <b>Application Number:</b>  | 16565746                       |
| <b>CORRESPONDENCE DATA</b>  |                                |
| <b>Fax Number:</b>  |                                |
| <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>   | 609-951-2522                   |
| <b>Email:</b>   | awalsh@tb-iplaw.com            |
| <b>Correspondent Name:</b>  | NEC LABORATORIES AMERICA, INC. |
| <b>Address Line 1:</b>  | 4 INDEPENDENCE WAY             |
| <b>Address Line 2:</b>  | SUITE 200                      |
| <b>Address Line 4:</b>  | PRINCETON, NEW JERSEY 08540    |
| <b>ATTORNEY DOCKET NUMBER:</b>  | 18066                          |
| <b>NAME OF SUBMITTER:</b>   | JAMES J. BITETTO               |
| <b>SIGNATURE:</b>   | /jjb/                          |
| <b>DATE SIGNED:</b>   | 09/10/2019                     |

PATENT

**Total Attachments: 6**

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**ASSIGNMENT**

Whereas, we,

- (1) **LuAn Tang**, of 10 Manley Road, Pennington, NJ 08534;
- (2) **Jingchao Ni**, of 300 Bunn Drive, Apt. C306, Princeton, NJ 08540;
- (3) **Wei Cheng**, of 5 Arnold Drive, Princeton Junction, NJ 08550;
- (4) **Haifeng Chen**, of 11 Blackhawk Court, West Windsor, NJ 08550;
- (5) **Dongjin Song**, of 22 Rutgers Lane, Princeton, NJ 08540;
- (6) **Bo Zong**, of 28 Hawthorne Drive, West Windsor, NJ 08550; and
- (7) **Wenchao Yu**, of 4908 Fox Run Drive, Plainsboro, NJ 08536.

(hereinafter called "Assignor(s)"), have made a certain invention, and executed United States Patent Application entitled:

**DYNAMIC TRANSACTION GRAPH ANALYSIS**

Whereas, NEC Laboratories America, Inc.  
4 Independence Way, Suite 200  
Princeton, New Jersey 08540

(hereinafter called "Assignee"), desires to acquire the entire right, title, and interest in the application and the invention, and to any applications, patents and/or utility model registrations filed or obtained therefor in every Country (hereinafter called the "Designated Countries").

Now therefore, for valuable consideration, receipt of which is hereby acknowledged,

I/we, the above named Assignor(s), hereby sell, assign and transfer to the above named Assignee the entire right, title and interest to file and/or obtain any applications, patents and/or utility model registrations in the Designated Countries as regards the United States application and the invention disclosed therein (including rights of priority based on the United States application), and I/we will execute without further consideration all papers deemed necessary by the Assignee in connection with such applications, patents and/or utility model registrations in the Designated Countries when called upon to do so by the Assignee.

Signed and Sealed:

**INVENTOR 1:**

**DATED on** 8/21/2019



(LuAn  
First Name

Middle Initial



(Tang)  
Last Name

**INVENTOR 2:**

**DATED on** \_\_\_\_\_

(Jingchao  
First Name

Middle Initial

(Ni)  
Last Name

ASSIGNMENT

Whereas, we,

- (1) **LuAn Tang**, of 10 Manley Road, Pennington, NJ 08534;
- (2) **Jingchao Ni**, of 300 Bunn Drive, Apt. C306, Princeton, NJ 08540;
- (3) **Wei Cheng**, of 5 Arnold Drive, Princeton Junction, NJ 08550;
- (4) **Haifeng Chen**, of 11 Blackhawk Court, West Windsor, NJ 08550;
- (5) **Dongjin Song**, of 22 Rutgers Lane, Princeton, NJ 08540;
- (6) **Bo Zong**, of 28 Hawthorne Drive, West Windsor, NJ 08550; and
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Signed and Sealed:

INVENTOR 1:

DATED on \_\_\_\_\_

|            |                |           |
|------------|----------------|-----------|
| (LuAn      |                | Tang)     |
| First Name | Middle Initial | Last Name |

INVENTOR 2:

DATED on 8/20/2019

|                 |                |           |
|-----------------|----------------|-----------|
| <i>Jingchao</i> |                | <i>Ni</i> |
| (Jingchao       |                | Ni)       |
| First Name      | Middle Initial | Last Name |

**INVENTOR 3:**

DATED on 08/19/2019

Wei \_\_\_\_\_ Chen  
(Wei) (Chen)  
First Name Middle Initial Last Name

**INVENTOR 4:**

DATED on \_\_\_\_\_

\_\_\_\_\_  
(Haifeng) (Chen)  
First Name Middle Initial Last Name

**INVENTOR 5:**

DATED on \_\_\_\_\_

\_\_\_\_\_  
(Dongjin) (Song)  
First Name Middle Initial Last Name

**INVENTOR 6:**

DATED on \_\_\_\_\_

\_\_\_\_\_  
(Bo) (Zong)  
First Name Middle Initial Last Name

**INVENTOR 7:**

DATED on \_\_\_\_\_

\_\_\_\_\_  
(Wenchao) (Yu)  
First Name Middle Initial Last Name



**INVENTOR 3:**

DATED on \_\_\_\_\_

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|            |                |           |
|------------|----------------|-----------|
| (Wei       |                | (Chen)    |
| First Name | Middle Initial | Last Name |

**INVENTOR 4:**

DATED on \_\_\_\_\_

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|            |                |           |
|------------|----------------|-----------|
| (Haifeng   |                | (Chen)    |
| First Name | Middle Initial | Last Name |

**INVENTOR 5:**

DATED on \_\_\_\_\_

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|            |                |           |
|------------|----------------|-----------|
| (Dongjin   |                | (Song)    |
| First Name | Middle Initial | Last Name |

**INVENTOR 6:**

DATED on 08/20/2019

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|            |                |           |
|------------|----------------|-----------|
| (Bo        |                | (Zong)    |
| First Name | Middle Initial | Last Name |



**INVENTOR 7:**

DATED on \_\_\_\_\_

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|            |                |           |
|------------|----------------|-----------|
| (Wenchao   |                | (Yu)      |
| First Name | Middle Initial | Last Name |

**INVENTOR 3:**

DATED on \_\_\_\_\_

|            |                |           |
|------------|----------------|-----------|
| (Wei)      |                | (Chen)    |
| First Name | Middle Initial | Last Name |

**INVENTOR 4:**

DATED on \_\_\_\_\_

|            |                |           |
|------------|----------------|-----------|
| (Haifeng)  |                | (Chen)    |
| First Name | Middle Initial | Last Name |

**INVENTOR 5:**

DATED on \_\_\_\_\_

|            |                |           |
|------------|----------------|-----------|
| (Dongjin)  |                | (Song)    |
| First Name | Middle Initial | Last Name |

**INVENTOR 6:**

DATED on \_\_\_\_\_

|            |                |           |
|------------|----------------|-----------|
| (Bo)       |                | (Zong)    |
| First Name | Middle Initial | Last Name |

**INVENTOR 7:**

DATED on 08/20/2019

|                |                |           |
|----------------|----------------|-----------|
| <i>Wenchao</i> |                | <i>Yu</i> |
| (Wenchao)      |                | (Yu)      |
| First Name     | Middle Initial | Last Name |