#### 10/01/2018 505120120

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5166881

| SUBMISSION TYPE:      | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT     |

### **CONVEYING PARTY DATA**

| Name              | Execution Date |
|-------------------|----------------|
| THOMAS BOONE      | 09/25/2018     |
| PRADEEP MANANDHAR | 09/06/2018     |
| GIRISH JAGTINI    | 09/28/2018     |
| YUAN-TUNG CHIN    | 09/06/2018     |
| ELIZABETH DOBISZ  | 09/26/2018     |
| MUSTAFA PINARBASI | 09/19/2018     |

#### **RECEIVING PARTY DATA**

| Name:           | SPIN TRANSFER TECHNOLOGIES, INC. |
|-----------------|----------------------------------|
| Street Address: | 45500 NORTHPORT LOOP WEST        |
| City:           | FREMONT                          |
| State/Country:  | CALIFORNIA                       |
| Postal Code:    | 94538                            |

#### **PROPERTY NUMBERS Total: 1**

| Property Type       | Number   |
|---------------------|----------|
| Application Number: | 16148223 |

### **CORRESPONDENCE DATA**

Fax Number: (408)938-9069

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: 408-938-9060

Email: officeaction@mhbpatents.com

SPIN TRANSFER C/O MURABITO, HAO & BARNES **Correspondent Name:** 

Address Line 1: TWO NORTH MARKET STREET

Address Line 2: THIRD FLOOR

Address Line 4: SAN JOSE, CALIFORNIA 95113

| ATTORNEY DOCKET NUMBER: | SPIN-0017-01.01US |
|-------------------------|-------------------|
| NAME OF SUBMITTER:      | JOHN F. RYAN      |
| SIGNATURE:              | /John F. Ryan/    |
| DATE SIGNED:            | 10/01/2018        |

## **Total Attachments: 6**

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# Assignment to Spin Transfer Technologies, Inc.

In consideration of good and valuable consideration, receipt of which is hereby acknowledged, I/we Thomas BOONE, Pradeep MANANDHAR, Girish JAGTINI, Yuan-Tung CHIN, Elizabeth DOBISZ, Mustafa PINARBASI

do hereby sell, assign, and transfer unto Spin Transfer Technologies, Inc. (hereinafter called Spin Transfer Technologies), a corporation of Delaware having its principal place of business 45500 Northport Loop West, Fremont CA 94538, and its successors and assigns, the entire right, title, and interest for the United States and all foreign countries, in and to any and all improvements, including the right of priority in, to, and under, the application for the United States patent entitled:

### **MULTI TERMINAL DEVICE STACK SYSTEMS AND METHODS**

|  |  | cribed therein, and any and all Letters Patent of<br>ich may be granted thereon or therefore; or  | the  |
|--|--|---|--|
|  | filed on<br>erein, and any and all Letters Pa<br>nted thereon or therefore;  | and the inventions atent of the United States and of countries fore   | s set forth<br>ign thereto   |
| deliver without further<br>continuation, divisional<br>Transfer Technologies<br>rights therein, in the<br>prosecution of interfere | er compensation any power<br>l or reissue, or other papers what, its successors and assigns, the United States and in any coulance proceedings involving said the expenses which may be incomplying the expenses which may be incomplying that the expenses which may be incomplying the expenses which may be incomplying that the expenses which may be incomplying the expenses which were the ex | upon request of, its successors or assigns, to of attorney, assignment, application, wheth nich may be necessary or desirable fully to see the inventions described in said application are intry foreign thereto, and to cooperate and a inventions and in the adjudication or reexaminatorized by me/us in lending such cooperation and | ner original,<br>cure to Spir<br>ad all patent<br>assist in the<br>ation of said |
| assignment, grant, mo  | rtgage, license, or other agreen   | <ul> <li>its successors, assigns, and legal representate<br/>nent affecting the rights and property herein or<br/>right to convey the same as herein expressed is</li> </ul>  | inveyed has  |
| In witness whereof, I/w  | e hereunto set my/our hand(s) a  | and seal:   |  |
| Inventor's Signature:<br>Thomas BOONE  |  | Date: 9/25/2018   |  |
| Inventor's Signature:<br>Pradeep MANANDHA  |  | Date:   |  |
| Inventor's Signature:<br>Girish JAGTINI  | ***************************************  | Date:   | vženitė, iš ir vitė ir provincijo, ne estraina                                   |
| Inventor's Signature:<br>Yuan-Tung CHIN  | anomeno in trata ante ante ante ante ante ante ante a  | Date:   | opposition filiplicary supplications of species of                               |
| Inventor's Signature:<br>Elizabeth DOBISZ  |  | Date:   |  |
| Inventor's Signature:  |  |   |  |

Page 1 of 1

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| Serial No.:  and described the which may be gra  | filed on erein, and any and all Le inted thereon or therefore  | otters Patent of the Ur  | and th<br>lited States and of co  | e inventions set forth<br>untries foreign thereto  |
| deliver without further<br>continuation, divisional<br>Transfer Technologies<br>rights therein, in the<br>prosecution of interfere | nsideration, I/we agree prear compensation any of the compensation any of the compensation and its successors and as united States and in a ence proceedings involving the expenses which mater Technologies.  | power of attorney,<br>pers which may be no<br>signs, the inventions<br>any country foreign the<br>ng said inventions and   | assignment, applica<br>ecessary or desirable<br>described in said ap<br>rereto, and to coope<br>I in the adjudication o | tion, whether original, fully to secure to Spin plication and all patent trate and assist in the preexamination of said  |
| assignment, grant, mo  | with Spin Transfer Techrortgage, license, or other<br>by the undersigned, and t  | agreement affecting  | the rights and proper   | ty herein conveyed has   |
| In witness whereof, I/w  | e hereunto set my/our ha   | and(s) and seal:   |   | •  |
| Inventor's Signature:<br>Thomas BOONE  | *18018 (18010); 11; 11; 1861 гором общовательности подата  | ppel mentemen camentamen en lymen en liet i element  | Date:   | int rivers of the support resistance in 1942 and 1942 and 1945 and 1945 and 1945 and 1945 and 1945 and 1945 and  |
| Inventor's Signature:<br>Pradeep MANANDHA  | R  | and the second s | Date:   | TOWN THE CHARLES OF T           |
| Inventor's Signature:<br>Girish JAGTINI  |  |  |   |  |
| Inventor's Signature;<br>Yuan-Tung CHIN  | Than Teny  | <u>Chi</u>   | Date: <u>7</u> -  | 6-2018   |
| Inventor's Signature:<br>Elizabeth DOBISZ  | MATERIAL PROPERTY OF THE PROPE |  | Date:   | TURE THURSDAY AND THE THURSDAY AND THE THURSDAY AND THE THE THURSDAY AND THE THURSDAY AND THE THURSDAY AND THE   |
| Inventor's Signature:<br>Mustafa PINARBASI   | · ·  | vannana vanda vanda vanda shakata shakata shakata bashakata shakata shakata shakata shakata shakata shakata sh   | Date:   | <del>- Company Com</del> |
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### **MULTI TERMINAL DEVICE STACK SYSTEMS AND METHODS**

|  | d the inventions set forth and described to<br>ad of countries foreign thereto which may  | herein, and any and all Letters Patent of the be granted thereon or therefore; or   |
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| and described th   | filed on<br>erein, and any and all Letters Patent of<br>anted thereon or therefore;   | and the inventions set forth the United States and of countries foreign thereto   |
| deliver without further of<br>divisional or reissue,<br>Technologies, its succe<br>in the United States and<br>proceedings involving | compensation any power of attorney, assion of other papers which may be necessions of the papers which may be necessions and assigns, the inventions description and to consider in any country foreign thereto, and to conside inventions and in the adjudication or | juest of, its successors or assigns, to execute and gnment, application, whether original, continuation, ary or desirable fully to secure to Spin Transfer bed in said application and all patent rights therein, operate and assist in the prosecution of interference reexamination of said Letters Patent provided the peration and assistance are paid by Spin Transfer |
| assignment, grant, mo  | rtgage, license, or other agreement affe  | essors, assigns, and legal representatives that no<br>cting the rights and property herein conveyed has<br>onvey the same as herein expressed is possessed  |
| In witness whereof, I/w  | e hereunto set my/our hand(s) and seal:   |   |
| Inventor's Signature: Thomas BOONE   | er kannan akan akai kalin akin dinakin dinakan kannan kannan ngan angan dinakan kannan dan angan man  | Date:   |
| Inventor's Signature:<br>Pradeep MANANDHA  | R.  | Date:   |
| Inventor's Signature;<br>Girish JAGTINI  | VAMANOVANIANI VANIANI   | Date:   |
| Inventor's Signature:<br>Yuan-Tung CHIN  | 81,001 10   | Date:   |
| Inventor's Signature:<br>Elizabeth DOBISZ  | as you to so  | lusz Date: 9/26/18  |
| Inventor's Signature:  | entitritutusta satirarii ariigi ay ay ay anii atayii ay   | Date:   |
| Page 1 of 1  |   | rev. 11/97 epn  |

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### MULTI TERMINAL DEVICE STACK SYSTEMS AND METHODS

| X filed herewith and the invention | s set forth and d | escribed thereir | n, and any and | all Letters Pater | nt of the        |
|------------------------------------|-------------------|------------------|----------------|-------------------|------------------|
| United States and of countries     | foreign thereto v | which may be gi  | ranted thereon | or therefore; or  |                  |
| Serial No.:                        | filed on          |                  |                | and the inver     | itions set forth |
| and described therein, and any     | and all Letters   | Patent of the U  | Inited States  | and of countries  | foreign thereto  |
| which may be granted thereon       | or therefore;     |                  |                |                   |                  |
|                                    |                   |                  |                |                   | ,                |

And for the above consideration, I/we agree promptly upon request of, its successors or assigns, to execute and deliver without further compensation any power of attorney, assignment, application, whether original, continuation, divisional or reissue, or other papers which may be necessary or desirable fully to secure to Spin Transfer Technologies, its successors and assigns, the inventions described in said application and all patent rights therein, in the United States and in any country foreign thereto, and to cooperate and assist in the prosecution of interference proceedings involving said inventions and in the adjudication or reexamination of said Letters Patent provided the expenses which may be incurred by me/us in lending such cooperation and assistance are paid by Spin Transfer Technologies.

I/we further covenant with Spin Transfer Technologies, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned;

In witness whereof, I/we hereunto set my/our hand(s) and seal:

| Inventor's Signature: | Uate:  |
|-----------------------|--|
| Thomas BOONE          |  |
| Inventor's Signature: | Date:  |
| Pradeep MANANDHAR     |  |
| Inventor's Signature  | Date 09/28/12  |
| Girish JAGTINI        | The Control of the Co |
| Inventor's Signature  | Date:  |
| Yuan-Tung CHIN        |  |
| Inventor's Signature. | Date   |
| Elizabeth DOBISZ      |  |
|                       |  |
| Inventor's Signature: | Date   |
| Mustafa PINARBASI     |  |

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| X filed herewith and the inventions set forth and described therein, and United States and of countries foreign thereto which may be granted   | any and all Letters Patent of the thereon or therefore; or   |
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| Serial No.:  and described therein, and any and all Letters Patent of the United which may be granted thereon or therefore;  | and the inventions set forth States and of countries foreign thereto   |
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| Inventor's Signature:  Pradeep MANANDHAR   | Date: 09/06/2018   |
| Inventor's Signature: Girish JAGTINI   | Date:  |
| Inventor's Signature: Yuan-Tung CHIN   | Date:  |
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| Inventor's Signature: Mustafa PINARBASI  | Date:  |

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### MULTI TERMINAL DEVICE STACK SYSTEMS AND METHODS

**RECORDED: 10/01/2018** 

|  | d of countries foreign thereto which may be  |  |  |
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| assignment, grant, mo  | with Spin Transfer Technologies, its succe<br>rtgage, license, or other agreement affec<br>y the undersigned, and that full right to co  | ting the rights and property here  | in conveyed has  |
| In witness whereof, I/w  | e hereunto set my/our hand(s) and seal:  |  |  |
| Inventor's Signature:<br>Thomas BOONE  |  | Date:  | and the second of the second o |
| Inventor's Signature:<br>Pradeep MANANDHA  | **************************************   | Date:  | ·  |
| Inventor's Signature:<br>Girish JAGTINI  |  | Date:  | ANALIAMAMAMAMAMAMAMAMAMAMAMAMAMAMAMAMAMAMA   |
| Inventor's Signature:<br>Yuan-Tung CHIN  |  | Date:  |  |
| Inventor's Signature:<br>Elizabeth DOBISZ  | internegasyntatificum ingenera metricipisi interiori, networke metricologia interiori, interiori interiori interiori interiori interiori.  | Date:  | пинтиния полька на намадата.   |
| Inventor's Signature:<br>Mustafa PINARBASI   | Ul-Pulase  | Date: 9-19   | - 2018   |
| Page 1 of 1  | w. w   | and the Mills  | rev. 11/97 epn   |