505574933 07/17/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5621732

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

CONVEYING PARTY DATA

| Name | Execution Date |
|-------------------------|----------------|
| JODI MARI IWATA | 04/26/2019 |
| GUENOLE JAN | 04/04/2019 |
| SANTIAGO SERRANO GUISAN | 04/29/2019 |
| LUC THOMAS | 04/27/2019 |
| RU-YING TONG | 04/05/2019 |

RECEIVING PARTY DATA

| Name: | HEADWAY TECHNOLOGIES, INC. | |
|-----------------|----------------------------|--|
| Street Address: | 678 S. HILLVIEW DRIVE | |
| City: | MILPITAS | |
| State/Country: | CALIFORNIA | |
| Postal Code: | 95035 | |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 16448362 |

CORRESPONDENCE DATA

Fax Number: (845)471-2064

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: 8454523204

Email: elise@saileackerman.com
Correspondent Name: SAILE ACKERMAN LLC
Address Line 1: 28 DAVIS AVENUE

Address Line 4: POUGHKEEPSIE, NEW YORK 12603

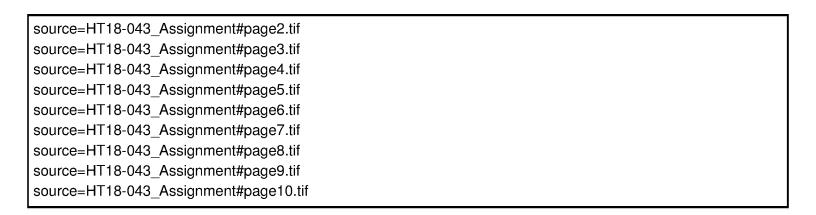
| ATTORNEY DOCKET NUMBER: | HT18-043 |
|-------------------------|----------------------|
| NAME OF SUBMITTER: | STEPHEN B ACKERMAN |
| SIGNATURE: | /Stephen B Ackerman/ |
| DATE SIGNED: | 07/17/2019 |

Total Attachments: 10

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PATENT REEL: 049773 FRAME: 0336

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| HT10 042 | | |
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| HT18-043 | For X U.S. and/or X Foreign Rights | |
| | | |
| | For X Application or U.S. Patent | |
| | By X Inventor(s) or Present Owner | |
| ASSIGNME | NT OF INVENTION | |
| In consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration, ASSIGNOR : | | |
| Jodi Mari Iwata | Guenole Jan | |
| Type or print name of ASSIGNOR | Type or print name of ASSIGNOR | |
| 2845 Brittan Avenue Street Address | 448 (inc. Avenue | |
| San Cartos, CA, WA 94070 City, State, Country, Zip | San Jose CA, USA, 95/25 City, State, Country, Zip | |
| USA | -FRENCH | |
| Nationality | Nationality | |
| Santiago Serrano Guisan Type or print name of ASSIGNOR | Luc Thomas Type or print name of ASSIGNOR | |
| Street Address | Street Address | |
| City, State, Country, Zip | City, State, Country, Zip | |
| Nationality | Nationality | |
| hereby sells, assigns and transfers to | | |
| ASSIGNEE: | | |
| Headway Technologies, Inc. 678 S. Hillview Drive Milpitas, CA 95035 USA Nationality | | |
| and the successors, assigns and legal repres | sentatives of the ASSIGNEE | |
| (complete one of the following) | | |
| x the entire right, title and interest | | |
| an undivided percent (%) interest for the United States and its territorial possessions | | |
| (check the following box/f foreign and in all foreign countries | gn rights are also to be assigned) | |
| in and to any and all improvements which are | disclosed in the invention entitled: | |
| Minimal Thickness, Low Switching Voltage Magnetic Free Layers Using a Mg Oxidation Control Layer and | | |
| Magnetic Moment Tuning Layer for Spintronic Applications | | |

HT18-043

| and which is found in | |
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| (a) U.S. patent application executed on ever | en date herewith |
| (b) U.S. patent application executed on | |
| (c) U.S. application serial no. | filed on |
| (d) U.S. patent no | issued |
| (also check (e) | if foreign application(s) is also being assigned) |
| (e) and any legal equivalent thereof in a fore | eign country, including the right to claim priority |
| | ed for said invention by the above application or any thereof, and as to letters patent any re-issue or re- |
| ASSIGNOR hereby covenants that no assignil be made or entered into which would conflict with the made of the second conflict with the second confl | gnment, sale, agreement or encumbrance has been or with this assignment. |
| pertinent facts and documents relating to said inversely may be known and accessible to ASSIGNOR and or proceeding related thereto and will promprepresentatives any and all papers, instruments of | IEE will, upon its request, be provided promptly with all rention and said Letters Patent and legal equivalents as d will testify as to the same in any interference, litigation of the execute and deliver to ASSIGNEE or its legal or affidavits required to apply for, obtain, maintain, issue said Letters Patent and said equivalents thereof which reposes thereof. |
| IN WITNESS WHEREOF, I / We have signed | |
| WARNING Date of signing must be the same as the date of | of execution of the application if item (a) was checked above. |
| Signature of ASSIGNOR Signature of ASSIGNOR | Date of Signing Date of Signing |
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| For Application or U.S. Patent By Inventor(s) or Present Owner ASSIGNMENT OF INVENTION In consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration, ASSIGNOR: Jodi Mari Iwata Type or print name of ASSIGNOR Street Address Street Address City, State, Country, Zip Nationality Santiago Serrano Guisan Type or print name of ASSIGNOR Type or print name of ASSIGNOR Street Address City, State, Country, Zip City, State, Country, Zip Nationality Nationa | | For $\stackrel{[X]}{\longrightarrow}$ U.S. and/or $\stackrel{[X]}{\longrightarrow}$ Foreign Rights |
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| Minimal Thickness, Low Switching Voltage Magnetic Free Layers Using a Mg Oxidation Control Layer and | in and to any and all improvements which are | e disclosed in the invention entitled: |
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| and | which |

Signature of ASSIGNOR

ich is found in (a) U.S. patent application executed on even date herewith (b) U.S. patent application executed on (c) U.S. application serial no. ______ filed on (e) and any legal equivalent thereof in a foreign country, including the right to claim priority and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute, thereof, and as to letters patent any re-issue or reexamination thereof. ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment. ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof. IN WITNESS WHEREOF, I / We have signed WARNING Date of signing must be the same as the date of execution of the application if item (a) was checked above. Signature of ASSIGNOR Date of Signing Signature of ASSIGNOR Date of Signing

Date of Signing

| HT18-043 | For X U.S. and/or Foreign Rights | |
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| | | |
| | For X Application or U.S. Patent | |
| | By $\begin{bmatrix} x \end{bmatrix}$ Inventor(s) or $\begin{bmatrix} x \end{bmatrix}$ Present Owner | |
| ASSIGNME | NT OF INVENTION | |
| In consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration, ASSIGNOR : | | |
| Jodi Mari Iwata | Guenole Jan | |
| Type or print name of ASSIGNOR | Guenole Jan Type or print name of ASSIGNOR | |
| Street Address | 448 (ne Avanue Street Address | |
| | San Tose CA, USA, 95/25 City, State, Country, Zip | |
| City, State, Country, Zip | | |
| Nationality | FRENCH- Nationality | |
| Oantiana Oannana Oataan | | |
| Santiago Serrano Guisan Type or print name of ASSIGNOR | Luc Thomas Type or print name of ASSIGNOR | |
| 1532 Los Rios Dr | 71 | |
| Street Address | Street Address | |
| City, State, Country, Zip | City, State, Country, Zip | |
| SPAIN | 5.15, 5.10.15, 5.50.11.15, <u>2.15</u> | |
| Nationality | Nationality | |
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Signature of ASSIGNOR

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| X | (a) U.S. patent application executed on even date herewith | |
| Ī | (b) U.S. patent application executed on | |
| | (c) U.S. application serial no filed on | |
| | (d) U.S. patent no issued (also check (e) if foreign application(s) is also being assigned) | |
| x | (e) and any legal equivalent thereof in a foreign country, including the right to claim priority | |
| contir | in and to, all Letters Patent to be obtained for said invention by the above application or any nuation, division, renewal, or substitute, thereof, and as to letters patent any re-issue or re-ination thereof. | |
| | ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or emade or entered into which would conflict with this assignment. | |
| ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof. | | |
| IN WI | TNESS WHEREOF, I / We have signed | |
| WARI | NING Date of signing must be the same as the date of execution of the application if item (a) was checked above. | |
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| | San Jose CA, USA, 95/25 City, State, Country, Zip | |
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| City, State, Country, Zip | City, State, Country, Zip | |
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| and which is found in | | | | | | | |
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| X | (a) U.S. patent application executed on even of | date herewith | | | | | |
| Ш | (b) U.S. patent application executed on | | | | | | |
| | (c) U.S. application serial no. | filed on | | | | | |
| | (d) U.S. patent no(also check (e) if fo | issued preign application(s) is also being assigned) | | | | | |
| x | x (e) and any legal equivalent thereof in a foreign country, including the right to claim priority | | | | | | |
| and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute, thereof, and as to letters patent any re-issue or re-examination thereof. | | | | | | | |
| ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment. | | | | | | | |
| ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof. | | | | | | | |
| IN WITNESS WHEREOF, I / We have signed | | | | | | | |
| WARNING Date of signing must be the same as the date of execution of the application if item (a) was checked above. | | | | | | | |
| 4 | ture of ASSIGNOR | Date of Signing Date of Signing | | | | | |
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| | For For | U.S. and/or Application or | Foreign Rights U.S. Patent | | | | | |
| | Ву | X Inventor(s) or | Present Owner | | | | | |
| ASSIGNMENT OF INVENTION | | | | | | | | |
| In consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration, | | | | | | | | |
| ASSIGNOR: | | | | | | | | |
| Type or print name of ASSIGNOR (130 Las Joyas CT Street Address Kos Chara (A 15032 City, State, Country, Zip (15, 14) Nationality | | | | | | | | |
| hereby sells, assigns and transfers to | | | | | | | | |
| ASSIGNEE: | | | | | | | | |
| Headway Technologies, Inc. 678 South Hillview Drive Milpitas, CA 95035 USA Nationality | | | | | | | | |
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HT18-043 and which is found in

examination thereof.

| X | (a) U.S. patent application executed on even date herewith | | | | |
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| | (b) U.S. patent application ex | ecuted on | | | |
| | (c) U.S. application serial no. | filed on | | | |
| П | (d) U.S. patent no. | issued | | | |
| Ц | (also check (e) if foreign application(s) is also being assigned) | | | | |
| x | (e) and any legal equivalent thereof in a foreign country, including the right to claim priority | | | | |
| | | to be obtained for said invention by the above application or an substitute, thereof, and as to letters patent any re-issue or re | • | | |

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ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, I / We have signed

WARNING Date of signing must be the same as the date of execution of the application if item (a) was checked above.

Signature of ASSIGNOR

RECORDED: 07/17/2019

Date of Signing