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| PATENT ASSIGNMENT COVER SHEET |
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Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5236221

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| YI YANG | 09/11/2018 |
| DONGNA SHEN | 09/11/2018 |
| YU-JEN WANG | 09/11/2018 |
| 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: | 16161139 |
| CORRESPONDENCE DATA | |
| Fax Number: | (845)471-2064 |
| <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> | |
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| 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: | HT18-023 |
| NAME OF SUBMITTER: | STEPHEN ACKERMAN |
| SIGNATURE: | /Stephen Ackerman/ |
| DATE SIGNED: | 11/14/2018 |
| Total Attachments: 2 | |
| source=HT18-023_Assignment#page1.tif | |
| source=HT18-023_Assignment#page2.tif | |

HT18-023

For U.S. and/or Foreign Rights
 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:

YI YANG
 Type or print name of ASSIGNOR
2298 Ocaso Camino
 Street Address
Fremont, CA, USA, 94539
 City, State, Country, Zip
China
 Nationality

DONGNA SHEN
 Type or print name of ASSIGNOR
1278 Aberford Dr.
 Street Address
San Jose, CA, 95131 USA
 City, State, Country, Zip
China
 Nationality

YU-JEN WANG
 Type or print name of ASSIGNOR
5655 Minville Drive
 Street Address
San Jose, CA, USA, 95118
 City, State, Country, Zip
USA
 Nationality

hereby sells, assigns and transfers to

ASSIGNEE:

Headway Technologies, Inc.
678 South Hillview Drive
Milpitas, CA 95035
USA

Nationality

and the successors, assigns and legal representatives of the ASSIGNEE

(complete one of the following)

- the entire right, title and interest
- an undivided _____ percent (___%) interest for the United States and its territorial possessions
 (check the following box/f foreign rights are also to be assigned)
- and in all foreign countries

in and to any and all improvements which are disclosed in the invention entitled:

Multiple Spacer Assisted Physical Etching of Sub 60NM MRAM Devices

and which 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 _____
- (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 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

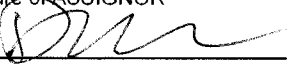
WARNING Date of signing must be the same as the date of execution of the application if item (a) was checked above.



Signature of ASSIGNOR

09-11-2018

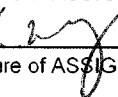
Date of Signing



Signature of ASSIGNOR

9/11/2018

Date of Signing



Signature of ASSIGNOR

09/11/2018

Date of Signing