10/17/2018 505146008

PATENT ASSIGNMENT COVER SHEET

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

CONVEYING PARTY DATA

| Name | Execution Date |
|----------------|----------------|
| CHENG T. HORNG | 07/07/2009 |
| RU-YING TONG | 07/07/2009 |
| GUANGLI LIU | 07/07/2009 |
| ROBERT BEACH | 07/07/2009 |
| WITOLD KULA | 07/07/2009 |
| TAI MIN | 07/07/2009 |

RECEIVING PARTY DATA

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| Postal Code: | 95035 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 14098604 |

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| ATTORNEY DOCKET NUMBER: HMG08-043/09-006B | |
|---|----------------------|
| NAME OF SUBMITTER: | STEPHEN B ACKERMAN |
| SIGNATURE: | /Stephen B Ackerman/ |
| DATE SIGNED: | 10/17/2018 |

Total Attachments: 4

PATENT REEL: 047198 FRAME: 0370

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| HMG08-043/09-006 | For X U.S. and/or X Foreign Rights For X Application or X U.S. Patent | | |
|--|--|--|--|
| | By X Inventor(s) or X 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: | | | |
| CHENG T. HORNG Type or print name of ASSIGNOR | RU-YING TONG | | |
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| 12 0 0hins | USA | | |
| Nationality | Nationality | | |
| hereby sells, assigns and transfers to | | | |
| ASSIGNEE: | | | |
| MagIC Technologies, Inc. 463-471 South Milpitas Blvd. Milpitas, CA 95035 USA Nationality | | | |
| and the successors, assigns and legal repre | sentatives of the ASSIGNEE | | |
| (complete one of the following) | | | |
| the entire right, title and interest | | | |
| an undivided percent (%) int | erest for the United States and its territorial | | |
| possessions (check the following boy/f fore | sign rights are also to be assigned) | | |
| (check the following box/f foreign rights are also to be assigned) x and in all foreign countries | | | |
| in and to any and all improvements which are disclosed in the invention entitled: <u>Structure And Method To Fabricate High Performance MTJ Devices For Spin-Transfer Torque (STT)-RAM Application</u> | | | |

| | For U.S. and/or Foreign Rights | | |
|--|---|--|--|
| | For X Application or X U.S. Patent | | |
| | By x Inventor(s) or x 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 : | | | |
| WITOLD KULA Type or print name of ASSIGNOR | TAI MIN | | |
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| hereby sells, assigns and transfers to | | | |
| ASSIGNEE: | | | |
| MagIC Technologies, Inc. 463-471 South Milpitas Blvd. 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) x and in all foreign countries | | | |
| in and to any and all improvements which are disclosed in the invention entitled: <u>Structure And Method To Fabricate High Performance MTJ Devices For Spin-Transfer Torque</u> | | | |

(STT)-RAM Application

| and ' | which is found in | |
|----------------------|---|---|
| x | (a) U.S. patent application executed on even date | e herewith |
| | (b) U.S. patent application executed on | |
| Ñ | (c) U.S. application serial no. | filed on |
| | (d) U.S. patent no(also check (e) if forei | issued |
| | (also check (e) il lorei | gn application(s) is also being assigned) |
| x | (e) and any legal equivalent thereof in a foreign of | ountry, including the right to claim priority |
| conti | | r said invention by the above application or any of, and as to letters patent any re-issue or re- |
| will b | ASSIGNOR hereby covenants that no assignme we made or entered into which would conflict with the | int, sale, agreement or encumbrance has been or nis assignment. |
| may or p repre | nent facts and documents relating to said invention be known and accessible to ASSIGNOR and will roceeding related thereto and will promptly essentatives any and all papers, instruments or affice | will, upon its request, be provided promptly with all and said Letters Patent and legal equivalents as testify as to the same in any interference, litigation execute and deliver to ASSIGNEE or its legal davits required to apply for, obtain, maintain, issue Letters Patent and said equivalents thereof which its thereof. |
| | TINESS WHEREOF, I I We have signed this (Date of string) must be the same as the date of executions. | signing) |
| | | Signature of ASSIGNOR(S) Light John Jim |
| If AS | SIGNOR is a legal entity complete the following | ng information |
| | | Type or print the name of the above person authorized to sign on behalf of ASSIGNOR |
| | | Title |
| N | Note: No witnessing, notarization or legalization is necessing prima facie evidence (35 USC 261). Use next page if notarizatio lotarization of Legalization Page Added. HMG08-043/09-006 | ary, if the assignment is notarized or legalized then it will only be |

(a) U.S. patent application executed on even date herewith (b) U.S. patent application executed on (c) U.S. application serial no. _ (d) U.S. patent no. ___ (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 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 this <u>ΠΙΤΙ09</u> (Date of signing) WARNING Date of signing must be the same as the date of execution of the application if item (a) was checked above. If ASSIGNOR is a legal entity complete the following information Type or print the name of the above person authorized to sign on behalf of ASSIGNOR Title No witnessing, notarization or legalization is necessary, if the assignment is notarized or legalized then it will only be prima facie evidence (35 USC 261). Use next page if notarization is desired. ___Notarization of Legalization Page Added.

> PATENT REEL: 047198 FRAME: 0375

and which is found in