

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Xueti Tang</td> <td>12/19/2011</td> </tr> <tr> <td>Vladimir Nikitin</td> <td>12/20/2011</td> </tr> <tr> <td>Dmytro Apalkov</td> <td>12/19/2011</td> </tr> <tr> <td>Kiseok Moon</td> <td>12/19/2011</td> </tr> <tr> <td>Steven M. Watts</td> <td>12/20/2011</td> </tr> </tbody> </table>		Name	Execution Date	Xueti Tang	12/19/2011	Vladimir Nikitin	12/20/2011	Dmytro Apalkov	12/19/2011	Kiseok Moon	12/19/2011	Steven M. Watts	12/20/2011
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<table border="1"> <tr> <td>Name:</td> <td>Samsung Electronics Co., LTD.</td> </tr> <tr> <td>Street Address:</td> <td>San #16, Banwol-Dong, Hwasung-City</td> </tr> <tr> <td>City:</td> <td>Gyeonggi-Do</td> </tr> <tr> <td>State/Country:</td> <td>REPUBLIC OF KOREA</td> </tr> <tr> <td>Postal Code:</td> <td>445-701</td> </tr> </table>		Name:	Samsung Electronics Co., LTD.	Street Address:	San #16, Banwol-Dong, Hwasung-City	City:	Gyeonggi-Do	State/Country:	REPUBLIC OF KOREA	Postal Code:	445-701		
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CORRESPONDENCE DATA													
<p>Fax Number: (650)318-3374</p> <p>Phone: 6503183374</p> <p>Email: patents@convergentlaw.com</p> <p><i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i></p> <p>Correspondent Name: Convergent Law Group LLP</p> <p>Address Line 1: 475 N. Whisman Road, Suite 400</p> <p>Address Line 4: MOUNTAIN VIEW, CALIFORNIA 94043</p>													
ATTORNEY DOCKET NUMBER:	GRAN020CIP												
NAME OF SUBMITTER:	Debbie Nishihara												

OP \$40.00 13332328

Total Attachments: 4

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Attorney Docket: GRAN020CIP

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I/we, the undersigned, **Xueti Tang, Vladimir Nikitin, Dmytro Apalkov, Kiseok Moon, and Steven M. Watts** do hereby sell, assign, and transfer to: **Samsung Electronics Co., LTD.**, a corporation having a principal place of business at San #16, Banwol-Dong, Hwasung-City, Gyeonggi-Do, South Korea 445-701 ("Assignee"), its successors, assigns, and legal representatives, the entire right, title and interest for the United States and all foreign countries, in and to any and all improvements which are disclosed in the application for the United States Letters Patent,

☐ which has been executed by the undersigned concurrently herewith,

☒ which was filed on **12/20/2011** and assigned Serial No. **13/332,328**

and is entitled:

METHOD AND SYSTEM FOR PROVIDING MAGNETIC LAYERS HAVING INSERTION LAYERS FOR USE IN SPIN TRANSFER TORQUE MEMORIES

and in and to said application and all divisional, continuing, substitute, renewal, reissue, and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said improvements; and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries on said improvements; and in and to all rights of priority resulting from the filing of said United States application; and

Agree that said Assignee may apply for and receive Letters Patent for said improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said improvements; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns, and representatives, all facts known to the undersigned relating to said improvements and the history thereof; and generally do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns and legal representatives; and

Covenant with said Assignee, 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.

And the Assignors hereby authorize and request the attorneys and agents to insert in the spaces provided above the title of the invention, filing date, application number, and attorney's docket number of said application when known.

Signed:



Inventor's Signature

12/19/2011

DATE

Xueti Tang

Inventor's Printed Name


Attorney Docket: GRAN020CIP

ASSIGNMENT CONTINUED

Inventor's Signature

DATE


Vladimir Nikitin
Inventor's Printed Name



Inventor's Signature

12-19-11
DATE

Dmytro Apalkov
Inventor's Printed Name



Inventor's Signature

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DATE

Kiseok Moon
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Xueti Tang

Inventor's Printed Name

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Dec -20, 2011
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Inventor's Printed Name

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Dmytro Apalkov
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Steven M. Watts
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