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PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Alexey Vasilyevitch Khvalkovskiy	08/24/2012
Dmytro Apalkov	08/24/2012

RECEIVING PARTY DATA

Name:	Samsung Electronics Co., LTD.	
Street Address:	129 Samsung-ro, Yeongtong-gu, Suwon-si	
City:	Gyeonggi-do	
State/Country:	KOREA, REPUBLIC OF	
Postal Code:	443-742	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13594824

CORRESPONDENCE DATA

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NAME OF SUBMITTER: Debbie Nishihara

Total Attachments: 1

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PATENT REEL: 028849 FRAME: 0690

Attorney Docket: GRAN033US

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I/we, the undersigned, Alexey VasilyevitchKhvalkovskiy and Dmytro Apalkov,do hereby sell, assign, and transfer to: Samsung Electronics Co., LTD., a corporation having a principal place of business at 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 443-742, Republic of Korea ("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 August 26, 2012 and assigned Serial No. 13/594,824

and is entitled:

METHOD AND SYSTEM FOR PROVIDING A MAGNETIC TUNNELING JUNCTION USING SPIN-ORBIT INTERACTION BASED SWITCHING AND MEMORIES UTILIZING THE MAGNETIC TUNNELING JUNCTION

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:	
ALC_	8124/12
Inventor's Signature	DATE
Alexey Vasilyevitch Khvalkovskiy Inventor's Printed Name	
ARIS	8/24/12
Inventor's Signature	DATE
DmytroApalkov Inventor's Printed Name	

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