

**PATENT ASSIGNMENT**

Electronic Version v1.1  
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SUBMISSION TYPE:	NEW ASSIGNMENT														
NATURE OF CONVEYANCE:	ASSIGNMENT														
<b>CONVEYING PARTY DATA</b>															
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Dmytro Apalkov</td> <td>02/22/2011</td> </tr> <tr> <td>Xueti Tang</td> <td>02/22/2011</td> </tr> <tr> <td>Vladimir Nikitin</td> <td>02/22/2011</td> </tr> <tr> <td>Alexander A.G. Driskill-Smith</td> <td>02/22/2011</td> </tr> <tr> <td>Steven M. Watts</td> <td>02/22/2011</td> </tr> <tr> <td>David Druist</td> <td>02/22/2011</td> </tr> </tbody> </table>		Name	Execution Date	Dmytro Apalkov	02/22/2011	Xueti Tang	02/22/2011	Vladimir Nikitin	02/22/2011	Alexander A.G. Driskill-Smith	02/22/2011	Steven M. Watts	02/22/2011	David Druist	02/22/2011
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Steven M. Watts	02/22/2011														
David Druist	02/22/2011														
<b>RECEIVING PARTY DATA</b>															
Name:	Grandis, Inc.														
Street Address:	1123 Cadillac Court														
City:	Milpitas														
State/Country:	CALIFORNIA														
Postal Code:	95035														
<b>PROPERTY NUMBERS Total: 1</b>															
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13033021</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13033021										
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<b>CORRESPONDENCE DATA</b>															
Fax Number:	(650)318-3374														
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>															
Phone:	6503183374														
Email:	patents@convergentlaw.com														
Correspondent Name:	Convergent Law Group LLP														
Address Line 1:	475 N. Whisman Road, Suite 400														
Address Line 4:	Mountain View, CALIFORNIA 94043														
ATTORNEY DOCKET NUMBER:	GLT001US														
NAME OF SUBMITTER:	Debbie Nishihara														

OP \$40.00 13033021

**Total Attachments: 4**

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Attorney Docket: GRAN011CIP

**ASSIGNMENT**

For good and valuable consideration, the receipt of which is hereby acknowledged, I/we, the undersigned, **Dmytro Apalkov, Xueti Tang, Vladimir Nikitin, Alexander A.G. Driskill-Smith, Steven M. Watts, David Druist** do hereby sell, assign, and transfer to: **Grandis, Inc.**, a corporation existing under the laws of the state of Delaware, having a principal place of business at 1123 Cadillac Court, Milpitas, CA 95035 ("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 2/23/2011 and assigned Serial No. 13/033,021,

and is entitled:

**METHOD AND SYSTEM FOR PROVIDING DUAL MAGNETIC TUNNELING  
JUNCTIONS USABLE IN SPIN TRANSFER TORQUE MAGNETIC 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 of Virtual Law Partners LLP and its 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


02/22/2011

\_\_\_\_\_  
DATE

**Dmytro Apalkov**

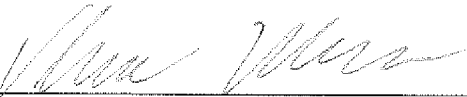
\_\_\_\_\_  
Inventor's Printed Name

**ASSIGNMENT continued**

  
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Inventor's Signature

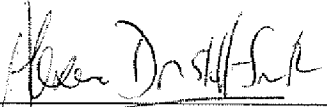
02/22/2011  
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DATE

**Xueti Tang**  
\_\_\_\_\_  
Inventor's Printed Name

  
\_\_\_\_\_  
Inventor's Signature


02-22-2011  
\_\_\_\_\_  
DATE

**Vladimir Nikitin**  
\_\_\_\_\_  
Inventor's Printed Name

  
\_\_\_\_\_  
Inventor's Signature

2/22/2011  
\_\_\_\_\_  
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**Alexander A.G. Driskill-Smith**  
\_\_\_\_\_  
Inventor's Printed Name

  
\_\_\_\_\_  
Inventor's Signature

2/22/2011  
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**Steven M. Watts**  
\_\_\_\_\_  
Inventor's Printed Name

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**David Druist**  
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**Dmytro Apalkov**  
\_\_\_\_\_  
Inventor's Printed Name

**ASSIGNMENT continued**

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Inventor's Signature

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**Xueti Tang**  
\_\_\_\_\_  
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**Vladimir Nikitin**  
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**Steven M. Watts**  
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*David Druist*  
\_\_\_\_\_  
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*2/22/2011*  
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**David Druist**  
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