

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

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>Patrick Mesquita Braganca</td> <td>11/14/2011</td> </tr> <tr> <td>Bruce Alvin Gurney</td> <td>11/11/2011</td> </tr> <tr> <td>Jordan Asher Katine</td> <td>01/09/2012</td> </tr> </tbody> </table>		Name	Execution Date	Patrick Mesquita Braganca	11/14/2011	Bruce Alvin Gurney	11/11/2011	Jordan Asher Katine	01/09/2012
Name	Execution Date								
Patrick Mesquita Braganca	11/14/2011								
Bruce Alvin Gurney	11/11/2011								
Jordan Asher Katine	01/09/2012								
RECEIVING PARTY DATA									
Name:	HITACHI GLOBAL STORAGE TECHNOLOGIES NETHERLANDS B.V.								
Street Address:	LOCATELLIKADE 1, PARNASSUSTOREN								
City:	1076 AZ AMSTERDAM								
State/Country:	NETHERLANDS								
PROPERTY NUMBERS Total: 1									
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13149419</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13149419				
Property Type	Number								
Application Number:	13149419								
CORRESPONDENCE DATA									
Fax Number:	(408)717-9155								
Email:	tom.berthold@comcast.net								
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>									
Correspondent Name:	HITACHI GLOBAL STORAGE TECHNOLOGIES								
Address Line 1:	5600 COTTLE ROAD								
Address Line 4:	San Jose, CALIFORNIA 95193								
ATTORNEY DOCKET NUMBER:	HSJ920110028US1								
NAME OF SUBMITTER:	Thomas R. Berthold								
Total Attachments: 1 source=HSJ920110028US1_AssignmentSigned#page1.tif									

CH \$40.00 13149419

ASSIGNMENT FOR PATENT APPLICATION

Whereas, I/we the undersigned inventor(s) have invented certain improvements as set forth in the patent application entitled:

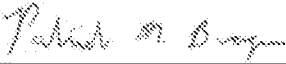


THREE-TERMINAL SPIN-TORQUE OSCILLATOR (STO)

and filed on 5/31/2011 as Application No.: 13/149,419;

Whereas, **Hitachi Global Storage Technologies Netherlands B.V.**, having a place of business at Locatellikade 1, Parnassustoren, 1076 AZ Amsterdam, The Netherlands (hereinafter referred to as "HITACHI"), desires to acquire the entire right, title and interest in the said application and invention, and to any United States and foreign patents to be obtained therefore;

Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, I/we, the above named, hereby sell, assign, and transfer to HITACHI, its successors and assigns, the entire right, title and interest in the said application and invention therein disclosed for the United States and foreign countries, and all rights of priority resulting from the filing of said United States application, and we request the Commissioner of Patents to issue any Letters Patent granted upon the inventions set forth in said application to HITACHI, its successors and assigns; and we hereby agree that HITACHI may apply for foreign Letters Patent on said invention and we will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by HITACHI.

Signed on the date(s) indicated beside my (our) signature(s).

1.	Full Name	Patrick Mesquita Braganca
	Inventor's Signature	 date 11/24/11
2.	Full Name	Bruce Alvin Gurney
	Inventor's Signature	 date 11/11/11
3.	Full Name	Jordan Asher Katine
	Inventor's Signature	 date 1/9/12