

PATENT ASSIGNMENT

Electronic Version v1.1

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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>Tsann Lin</td><td>11/16/2007</td></tr><tr><td>Daniele Mauri</td><td>11/16/2007</td></tr></tbody></table>		Name	Execution Date	Tsann Lin	11/16/2007	Daniele Mauri	11/16/2007		
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Tsann Lin	11/16/2007								
Daniele Mauri	11/16/2007								
RECEIVING PARTY DATA									
<table border="1"><tr><td>Name:</td><td>HITACHI GLOBAL STORAGE TECHNOLOGIES NETHERLANDS B.V.</td></tr><tr><td>Street Address:</td><td>LOCATELLIKADE 1, PARNASSUSTOREN</td></tr><tr><td>City:</td><td>1076 AZ AMSTERDAM</td></tr><tr><td>State/Country:</td><td>NETHERLANDS</td></tr></table>		Name:	HITACHI GLOBAL STORAGE TECHNOLOGIES NETHERLANDS B.V.	Street Address:	LOCATELLIKADE 1, PARNASSUSTOREN	City:	1076 AZ AMSTERDAM	State/Country:	NETHERLANDS
Name:	HITACHI GLOBAL STORAGE TECHNOLOGIES NETHERLANDS B.V.								
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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>11941763</td></tr></tbody></table>		Property Type	Number	Application Number:	11941763				
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Application Number:	11941763								
CORRESPONDENCE DATA									
Fax Number: (408)717-9155 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
Email: tom.berthold@comcast.net									
Correspondent Name: HITACHI GLOBAL STORAGE TECHNOLOGIES									
Address Line 1: 5600 COTTLE ROAD									
Address Line 4: San Jose, CALIFORNIA 95193									
ATTORNEY DOCKET NUMBER:	HSJ920070152US1								
NAME OF SUBMITTER:	Thomas R. Berthold								
Total Attachments: 1 source=HSJ920070152US1_Assignment_Signed#page1.tif									

CH \$40.00 11941763

# ASSIGNMENT

Whereas, I/we, as below named inventor(s), have invented certain improvements in:

## METHOD FOR FORMING AN MgO BARRIER LAYER IN A TUNNELING MAGNETORESISTIVE (TMR) DEVICE

and executed a Declaration and Power of Attorney for a United States patent application therefor on:

1. 11/16/07	2. 11/16/07
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Whereas, HITACHI GLOBAL STORAGE TECHNOLOGIES NETHERLANDS B.V., having a place of business at Locatellikade 1, Parnassustoren, 1076 AZ Amsterdam, The Netherlands (hereafter called 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 therefor;

Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, 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.

1.	Full Name	Tsann Lin
	Inventor's Signature	<i>Tsann Lin</i> date 11/16/07
	Residence Address	19686 Via Grande Drive, Saratoga, CA 95070
	Residence County	Santa Clara
	Post Office Address	SAME
	Citizenship	US

2.	Full Name	Daniele Mauri
	Inventor's Signature	<i>Daniele Mauri</i> date 11/16/07
	Residence Address	1163 Scarsdale Court, San Jose, CA 95120
	Residence County	Santa Clara
	Post Office Address	SAME
	Citizenship	CH

PATENT