

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>Olav Hellwig</td> <td>12/13/2011</td> </tr> <tr> <td>Ernesto E. Marinero</td> <td>12/13/2011</td> </tr> <tr> <td>Dieter K. Weller</td> <td>09/26/2011</td> </tr> </tbody> </table>		Name	Execution Date	Olav Hellwig	12/13/2011	Ernesto E. Marinero	12/13/2011	Dieter K. Weller	09/26/2011
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<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
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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>13049124</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13049124				
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Application Number:	13049124								
CORRESPONDENCE DATA									
<p>Fax Number: (408)717-9155</p> <p>Email: tom.berthold@comcast.net</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: HITACHI GLOBAL STORAGE TECHNOLOGIES</p> <p>Address Line 1: 5600 COTTLE ROAD</p> <p>Address Line 4: San Jose, CALIFORNIA 95193</p>									
ATTORNEY DOCKET NUMBER:	HSJ920100109US1								
NAME OF SUBMITTER:	Thomas R. Berthold								
<p>Total Attachments: 1</p> <p>source=HSJ920100109US1_AssignmentSigned#page1.tif</p>									

CH \$40.00 13049124

ASSIGNMENT FOR PATENT APPLICATION

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

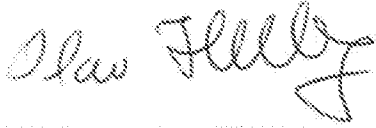
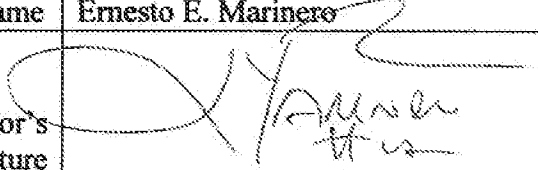
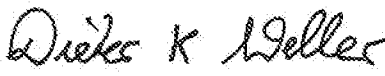
PATTERNED PERPENDICULAR MAGNETIC RECORDING MEDIUM WITH ULTRATHIN OXIDE FILM AND REDUCED SWITCHING FIELD DISTRIBUTION

and filed on 3/16/2011 as Application No.: 13/049,124;

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	Olav Hellwig
	Inventor's Signature	 date 12/13/2011
2.	Full Name	Ernesto E. Marinero
	Inventor's Signature	 date 12/13/2011
3.	Full Name	Dieter K. Weller
	Inventor's Signature	 date 9/26/2011