

PATENT ASSIGNMENT

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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>Yusuke Takahashi</td> <td>12/22/2011</td> </tr> <tr> <td>Hiromi Shiina</td> <td>12/22/2011</td> </tr> <tr> <td>Kazue Kudo</td> <td>12/22/2011</td> </tr> <tr> <td>Yohji Maruyama</td> <td>12/22/2011</td> </tr> <tr> <td>Kaori Suzuki</td> <td>12/22/2011</td> </tr> </tbody> </table>		Name	Execution Date	Yusuke Takahashi	12/22/2011	Hiromi Shiina	12/22/2011	Kazue Kudo	12/22/2011	Yohji Maruyama	12/22/2011	Kaori Suzuki	12/22/2011
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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</td> </tr> <tr> <td>Internal Address:</td> <td>Pamassustoren</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	Internal Address:	Pamassustoren	City:	1076 AZ Amsterdam	State/Country:	NETHERLANDS		
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CORRESPONDENCE DATA													
<p>Fax Number: (408)971-4660</p> <p>Phone: 408-971-2573</p> <p>Email: april@zilkakotab.com</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: Zilka-Kotab, PC</p> <p>Address Line 1: P.O. Box 721120</p> <p>Address Line 4: San Jose, CALIFORNIA 95172</p>													
ATTORNEY DOCKET NUMBER:	HIT1P615/HJP920100034US1												
NAME OF SUBMITTER:	Dominic M. Kotab												
<p>Total Attachments: 2</p> <p>source=Assignment_HJP9-2010-0034_#page1.tif</p> <p>source=Assignment_HJP9-2010-0034_#page2.tif</p>													

CH \$40.00 13168083

ASSIGNMENT OF PATENT APPLICATION

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

LOW PERMEABILITY MATERIAL FOR A SIDE SHIELD IN A PERPENDICULAR MAGNETIC HEAD

for which I (we) have executed an application for a United States Letters Patent which was filed in the U.S. Patent and Trademark Office on 06/24/2011 and which bears the Application No. 13/168,083.

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/we the undersigned inventor(s) hereby:

- 1) Sell(s), assign(s) and transfer(s) to Hitachi Global Storage Technologies Netherlands B.V., a corporation having a place of business at Locatellikade 1, Parnassustoren, 1076 AZ Amsterdam, The Netherlands, (hereinafter referred to as "ASSIGNEE"), the entire right title and interest in any and all improvements and inventions disclosed in, application(s) based upon, and Patent(s) (including foreign patents) granted upon the information which is disclosed in the above referenced application.
- 2) Authorize and request the Commissioner of Patents to issue any and all Letters Patents resulting from said application or any division(s), continuation(s), substitutes(s) or reissue(s) thereof to the ASSIGNEE.
- 3) Agree to execute all papers and documents and, entirely at the ASSIGNEE's expense, perform any acts which are reasonably necessary in connection with the prosecution of said application, as well as any derivative and applications thereof, foreign applications based thereon, and/or the enforcement of patents resulting from such applications.
- 4) Agree that the terms, covenants and conditions of this assignment shall inure to the benefit of the Assignee, its successors, assigns and other legal representative, and shall be binding upon the inventor(s), as well as the inventor's heirs, legal representatives and assigns.
- 5) Warrant and represent that I/we have not entered, and will not enter into any assignment, contract, or understanding that conflicts with this assignment.

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

- 1) Signature: Yusuke Takahashi Date: 2011.12.22
Typed Name: Yusuke Takahashi
- 2) Signature: Hiroshi Shiina Date: 2011.12.22
Typed Name: Hiroshi Shiina

- 3) Signature: Kazuo Kudo Date: 2011.12.22
Typed Name: Kazuo Kudo
- 4) Signature: Yohji Maruyama Date: 2011.12.22
Typed Name: Yohji Maruyama
- 5) Signature: Kaori Suzuki Date: 2011.12.22
Typed Name: Kaori Suzuki