

**PATENT ASSIGNMENT**

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
Yo Sato	11/24/2009
Katsumi Hoshino	11/24/2009
Masato Shiimoto	11/24/2009
Takeshi Nakagawa	11/24/2009
Hiroyuki Hoshiya	11/24/2009
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	Hitachi Global Storage Technologies Netherlands B.V.
<b>Street Address:</b>	Locatellikade 1
<b>Internal Address:</b>	Parnassustoren
<b>City:</b>	1076 AZ Amsterdam
<b>State/Country:</b>	NETHERLANDS
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	12628577
<b>CORRESPONDENCE DATA</b>	
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<b>ATTORNEY DOCKET NUMBER:</b>	HJP920080046US1/HIT1P457
<b>NAME OF SUBMITTER:</b>	Dominic M. Kotab

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**PATENT  
 REEL: 023593 FRAME: 0117**

Total Attachments: 2

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## 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:



### DIFFERENTIAL MAGNETORESISTIVE EFFECT HEAD AND MAGNETIC RECORDING/READING DEVICE

(Atty. Docket No.: HIT1P457/HJP920080046US1) for which I (we) have executed an application for a United States Letters Patent.

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:  Date: 11/24/2009  
Typed Name: Yo Sato
- 2) Signature:  Date: 11/24/2009  
Typed Name: Katsumi Hoshino

- 3) Signature: Masato Shiimoto Date: 11/24/2009  
Typed Name: Masato Shiimoto
- 4) Signature: Takeshi Nakagawa Date: 11/24/2009  
Typed Name: Takeshi Nakagawa
- 5) Signature: Hiroyuki Hoshiya Date: 11/24/2009  
Typed Name: Hiroyuki Hoshiya