

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>James Mac Freitag</td><td>09/06/2006</td></tr><tr><td>Kuok San Ho</td><td>10/10/2006</td></tr><tr><td>Mustafa Michael Pinarbasi</td><td>09/07/2006</td></tr><tr><td>Ching Hwa Tsang</td><td>10/06/2006</td></tr></tbody></table>	Name	Execution Date	James Mac Freitag	09/06/2006	Kuok San Ho	10/10/2006	Mustafa Michael Pinarbasi	09/07/2006	Ching Hwa Tsang	10/06/2006	
Name	Execution Date										
James Mac Freitag	09/06/2006										
Kuok San Ho	10/10/2006										
Mustafa Michael Pinarbasi	09/07/2006										
Ching Hwa Tsang	10/06/2006										
RECEIVING PARTY DATA											
Name:	Hitachi Global Storage Technologies Netherlands B.V.										
Street Address:	Locatellikade 1										
Internal Address:	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>11588013</td></tr></tbody></table>	Property Type	Number	Application Number:	11588013							
Property Type	Number										
Application Number:	11588013										
CORRESPONDENCE DATA											
Fax Number:	(408)971-4660										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone:	408-971-2573										
Email:	april@zilkakotab.com										
Correspondent Name:	Zilka-Kotab, PC										
Address Line 1:	P.O. Box 721120										
Address Line 4:	San Jose, CALIFORNIA 95172										
ATTORNEY DOCKET NUMBER:	HSJ920050049US1/HIT1P168										
NAME OF SUBMITTER:	Ronald B. Feece										
Total Attachments: 2											
source=HIT1P168_signedassign_04-05-2007#page1.tif											

CH 11588013 \$40.00

PATENT

REEL: 019120 FRAME: 0791

500253441

ASSIGNMENT OF PATENT APPLICATION

(Not Accompanying Application)

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

MAGNETORESISTIVE SENSOR HAVING SHAPE ENHANCED PINNING, A FLUX GUIDE STRUCTURE AND DAMAGE FREE VIRTUAL EDGES

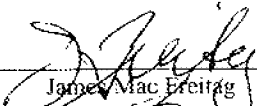
(Atty. Docket No.: HIT1P168/HSJ920050049US1) for which I (we) have executed an application for a United States Letters Patent.

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.

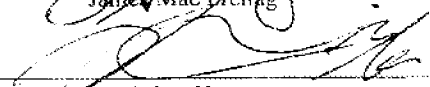
Signed on the date(s) indicated beside my (our) signature(s).

1) Signature: _____
Typed Name: _____


James Mac Freitag

Date: 9/6/2006

2) Signature: _____
Typed Name: _____


Kuok San Ho

Date: 10/10/06

3) Signature: Mustafa Pinarbasi
Typed Name: Mustafa Michael Pinarbasi

Date: 8-7-2006

4) Signature: Ching Hwa Tsang
Typed Name: Ching Hwa Tsang

Date: 10-06-2006