

### ASSIGNMENT RECORDATION COVER SHEET -PATENTS ONLY-

To: Honorable Commissioner of Patents and Trademarks:

Please record the attached original document(s) or copy thereof.

1. Name of conveying party(ies)
  - a) James Mac Freitag
  - b) Kuok San Ho
  - c) Mustafa Michael Pinarbasi
  - d) Ching Hwa Tsang
  
2. Name and address of receiving party(ies):
  - a) Name: Hitachi Global Storage Technologies Netherlands B.V.  
 Address: Locatellikade 1  
 Parnassustoren  
 1076 AZ Amsterdam  
 The Netherlands

3. Nature of conveyance
 

<input checked="" type="checkbox"/> Assignment	<input type="checkbox"/> Merger
<input type="checkbox"/> Security Agreement	<input type="checkbox"/> Change of Name
<input type="checkbox"/> Other _____	<input type="checkbox"/> License Agreement

Execution Date: 07/22/2005, 08/09/2005, 07/20/2005, 08/09/2005, Respectively

4. Application Number(s) or Patent Number(s): 11/204,973

The title of the (new) application is:

#### METHOD OF MANUFACTURING A MAGNETORESISTIVE SENSOR HAVING A SHAPE ENHANCED PINNED LAYER

5. Please send all correspondence concerning this (these) documents to:

Zilka-Kotab, PC  
P.O. Box 721120  
San Jose, CA 95172-1120  
Tel. No.: (408) 971-2573

6. Total number of applications and patents involved: 1


7. Total fee (37 CFR 3.41): \$40.00

- |                                     |   |
|-------------------------------------|---|
| <input type="checkbox"/>            | Enclosed  |
| <input checked="" type="checkbox"/> | Authorized to be charged to Deposit Account No. 50-2587<br>(Order No.HSJ920050122US1) |

8. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Date:

10/19/05

  
\_\_\_\_\_  
Ronald B. Feece  
Registration No. 46,327

Attorney Docket No.: HSJ920050122US1\_HIT1P194

(Revised 01/96)

CH \$40.00 502587 11204973

## ASSIGNMENT OF PATENT APPLICATION

(Accompanying Application)

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

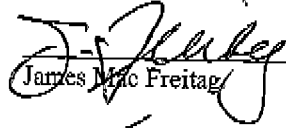
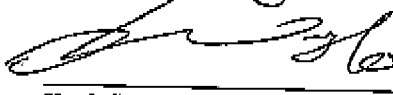
**METHOD OF MANUFACTURING A MAGNETORESISTIVE SENSOR HAVING A SHAPE ENHANCED PINNED LAYER**

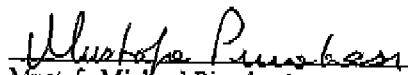
(Atty. Docket No.: HIT1P194/HSJ920050122US1) for which I (we) have executed an application for a United States Letters Patent.

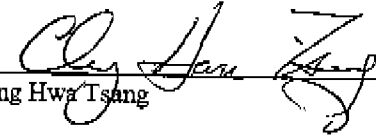
For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/we the undersigned inventor(s) hereby:

- 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: 7/22/05  
 Typed Name: James Mac Freitag
- 2) Signature:  \_\_\_\_\_ Date: 08/09/05  
 Typed Name: Kuok San Ho

3) Signature:  Date: 7-20-2005  
Typed Name: Mustafa Michael Pinarbasi

4) Signature:  Date: 8/9/05  
Typed Name: Ching Hwa Tsang