

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>Yi Zheng</td> <td>04/25/2012</td> </tr> <tr> <td>Guomin Mao</td> <td>04/25/2012</td> </tr> <tr> <td>Hicham M. Sougrati</td> <td>04/25/2012</td> </tr> <tr> <td>Xiaozhong Dang</td> <td>04/25/2012</td> </tr> </tbody> </table>		Name	Execution Date	Yi Zheng	04/25/2012	Guomin Mao	04/25/2012	Hicham M. Sougrati	04/25/2012	Xiaozhong Dang	04/25/2012
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Yi Zheng	04/25/2012										
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Xiaozhong Dang	04/25/2012										
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>13458374</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13458374						
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Application Number:	13458374										
CORRESPONDENCE DATA											
Fax Number:	4089714660										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
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ATTORNEY DOCKET NUMBER:	HIT1P671/HSJ920120005US1										
NAME OF SUBMITTER:	Ronald B. Feece										
Total Attachments: 2 source=HSJ920120005US1_Assignment#page1.tif source=HSJ920120005US1_Assignment#page2.tif											

CH \$40.00 13458374

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:

DIFFERENTIATED LIFTOFF PROCESS FOR ULTRA-SHALLOW MASK DEFINED NARROW TRACKWIDTH MAGNETIC SENSOR


(Atty. Docket No.: HIT1P671/HSJ920120005US1) 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:

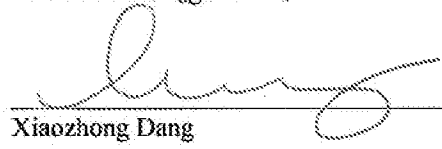
- 1) Sell(s), assign(s) and transfer(s) to Hitachi Global Storage Technologies Netherlands B.V., a corporation having a place of business at Locatellikade 1, Parnassustoren, 1076 AZ Amsterdam, The Netherlands, (hereinafter referred to as "ASSIGNEE"), the entire right title and interest in any and all 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: Yi Zheng Date: 4/25/2012
Typed Name: Yi Zheng
- 2) Signature: Guomin Mao Date: 4/25/2012
Typed Name: Guomin Mao

3) Signature: 
Typed Name: Hicham M. Sougrati

Date: 04/25/2012

4) Signature: 
Typed Name: Xiaozhong Dang

Date: 4/25/2012