

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Shanlin Duan</td> <td>01/12/2010</td> </tr> <tr> <td>Jizhong He</td> <td>01/10/2010</td> </tr> <tr> <td>John S. Hopkins</td> <td>01/12/2010</td> </tr> <tr> <td>Kenneth E. Johnson</td> <td>01/12/2010</td> </tr> </tbody> </table>		Name	Execution Date	Shanlin Duan	01/12/2010	Jizhong He	01/10/2010	John S. Hopkins	01/12/2010	Kenneth E. Johnson	01/12/2010
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">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>Parnassustoren</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:	Parnassustoren	City:	1076 AZ Amsterdam	State/Country:	NETHERLANDS
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Application Number:	12646831										
CORRESPONDENCE DATA											
<p>Fax Number: (408)971-4660</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 408-971-2573</p> <p>Email: april@zilkakotab.com</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:	HSJ920090102US1/HIT1P477										
NAME OF SUBMITTER:	Ronald B. Feece										
<p>Total Attachments: 2</p> <p>source=HSJ920090102US1 Ex Assign#page1.tif</p>											

CH \$40.00 12646831

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PATENT
REEL: 023794 FRAME: 0024

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:

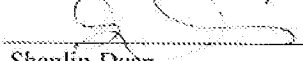
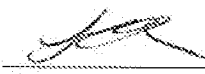
HIGH SENSITIVITY GLIDE SENSOR USING FRICTIONAL HEATING

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 12/23/2009, and which bears the Application No. 12/646,831.

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: 1/12/10
Typed Name: Shanlin Duan
- 2) Signature:  Date: 1/12/10
Typed Name: Jizhong He

3)

Signature:

Typed Name:

John S. Hopkins

Date:

1/12/2010

4)

Signature:

Typed Name:

Kenneth E. Johnson

Date:

01/12/2010