

## 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>CHANGHE SHANG</td> <td>06/04/2012</td> </tr> <tr> <td>DANIELE MAURI</td> <td>07/18/2012</td> </tr> <tr> <td>KUOK SAN HO</td> <td>08/10/2012</td> </tr> </tbody> </table>		Name	Execution Date	CHANGHE SHANG	06/04/2012	DANIELE MAURI	07/18/2012	KUOK SAN HO	08/10/2012		
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RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>WESTERN DIGITAL (FREMONT), LLC</td> </tr> <tr> <td>Street Address:</td> <td>44100 OSGOOD ROAD</td> </tr> <tr> <td>City:</td> <td>FREMONT</td> </tr> <tr> <td>State/Country:</td> <td>CALIFORNIA</td> </tr> <tr> <td>Postal Code:</td> <td>94539</td> </tr> </table>		Name:	WESTERN DIGITAL (FREMONT), LLC	Street Address:	44100 OSGOOD ROAD	City:	FREMONT	State/Country:	CALIFORNIA	Postal Code:	94539
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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>13436732</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13436732						
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CORRESPONDENCE DATA											
<p>Fax Number: 9496726604          Phone: (949) 672-6148          Email: kristen.truong@wdc.com  <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i></p> <p>Correspondent Name: WESTERN DIGITAL          Address Line 1: ATTN: IP LAW DEPARTMENT          Address Line 2: 3355 MICHELSON DRIVE, SUITE 100          Address Line 4: IRVINE, CALIFORNIA 92612</p>											
ATTORNEY DOCKET NUMBER:	F5719										
NAME OF SUBMITTER:	Joshua M. Nelson										
Total Attachments: 4 source=F5719_Assignment_EFS#page1.tif source=F5719_Assignment_EFS#page2.tif source=F5719_Assignment_EFS#page3.tif source=F5719_Assignment_EFS#page4.tif											

CH \$40.00 13436732

**ASSIGNMENT**

Whereas, we, **CHANGHE SHANG**, a citizen of the **United States of America**, residing at **Fremont, California**; **DANIELE MAURI**, a citizen of the **United States of America**, residing at **San Jose, California**; and **KUOK SAN HO**, a citizen of the **United States of America**, residing at **Emerald Hills, California**, have invented certain new and useful improvements in **METHOD AND SYSTEM FOR PERFORMING ON-WAFER TESTING OF HEADS** (hereafter "Improvements") for which we have executed an application for a United States Patent filed **March 30, 2012**, Application No. **13/436,732** (hereafter "Application"); and

Whereas, **Western Digital (Fremont), LLC** (hereafter "Assignee"), a Delaware limited liability company, desires to acquire the entire right, title, and interest in and to the Improvements and the Application.

Now, therefore, that for good and valuable consideration, the receipt of which is hereby acknowledged, we hereby acknowledge that we have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the Assignee, its successors, legal representatives and assignees, the entire right, title, and interest throughout the world in, to and under the Improvements, and the Application and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted thereof and all reissues and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent which may hereafter be filed for the Improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and we hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patents for the Improvements to the Assignee, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

We hereby covenant and agree that we will communicate to the Assignee, its successors, legal representatives and assigns, any facts known to me respecting the Improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and aid the Assignee, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for the Improvements in all countries.

ASSIGNMENT

PATENT

Atty. Docket No.: F5719

Title of Invention: **METHOD AND SYSTEM FOR PERFORMING ON-WAFER TESTING OF HEADS**

CHANGHE SHANG

06/04/2012  
Date

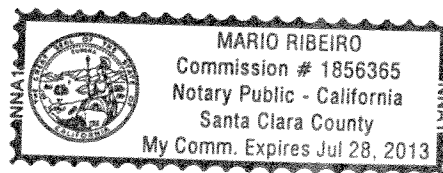
State of California )  
 ) ss.  
County of ALAMEDA )

On 06/04/12, before me, MARIO RIBEIRO, Notary Public, personally appeared **CHANGHE SHANG** who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature: [Signature]  
Signature of Notary Public



ASSIGNMENT

PATENT  
Atty. Docket No.: F5719

Title of Invention: **METHOD AND SYSTEM FOR PERFORMING ON-WAFER TESTING OF HEADS**

*Daniele Mauri*  
DANIELE MAURI

7/18/2012  
Date

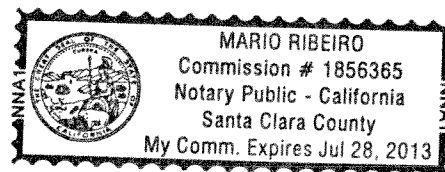
State of California )  
 ) ss.  
County of ALAMEDA )

On 07/18/12, before me, MARIO RIBEIRO, Notary Public, personally appeared **DANIELE MAURI** who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature: *Mario Ribeiro*  
Signature of Notary Public



ASSIGNMENT

PATENT  
Atty. Docket No.: F5719

Title of Invention: **METHOD AND SYSTEM FOR PERFORMING ON-WAFER TESTING OF HEADS**

  
\_\_\_\_\_  
KUOK SAN HO


08/10/2012  
Date

State of California                    )  
  ) ss.  
County of ALAMEDA                    )

On 08/10/12, before me, MARIO RIBEIRO, Notary Public, personally appeared **KUOK SAN HO** who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature:   
\_\_\_\_\_  
Signature of Notary Public

