

## PATENT ASSIGNMENT

Electronic Version v1.1  
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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>GUANGHONG LUO</td> <td>04/07/2008</td> </tr> <tr> <td>LIUBO HONG</td> <td>04/04/2008</td> </tr> <tr> <td>HONGLIN ZHU</td> <td>04/08/2008</td> </tr> <tr> <td>YUN-FEI LI</td> <td>04/14/2008</td> </tr> <tr> <td>YINGJIAN CHEN</td> <td>04/08/2008</td> </tr> </tbody> </table>		Name	Execution Date	GUANGHONG LUO	04/07/2008	LIUBO HONG	04/04/2008	HONGLIN ZHU	04/08/2008	YUN-FEI LI	04/14/2008	YINGJIAN CHEN	04/08/2008
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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													
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CORRESPONDENCE DATA													
<p>Fax Number: (949)672-6604          Phone: (949) 672-7871          Email: renee.quick@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:	F3439.D1												
NAME OF SUBMITTER:	Renee M. Quick												

CH \$40.00 13417930

**Total Attachments: 6**

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**ASSIGNMENT**

Whereas, we, **GUANGHONG LUO**, a citizen of **P.R. China**, residing at **Fremont, California**; **LIUBO HONG** a citizen of **P.R. China**, residing at **San Jose, California**; **HONGLIN ZHU**, a citizen of **P.R. China**, residing at **Fremont, California**; **YUN-FEI LI**, a citizen of **P.R. China**, residing at **Fremont, California**; and **YINGJIAN CHEN**, a citizen of **the United States of America**, residing at **Fremont, California**, have invented certain new and useful improvements in **METHOD AND SYSTEM FOR PROVIDING A PERPENDICULAR MAGNETIC RECORDING HEAD** (hereafter "Improvements") for which we have executed an application for a United States Patent filed **March 28, 2008**, Application No. **12/057,692** (hereafter "Application"); and

Whereas, **Western Digital (Fremont), LLC** (hereafter "Assignee"), a Delaware Corporation, 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.: F3439

Title of Invention: **METHOD AND SYSTEM FOR PROVIDING A PERPENDICULAR  
MAGNETIC RECORDING HEAD**

  
\_\_\_\_\_  
GUANGHONG LUO

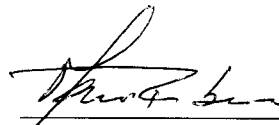
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Date

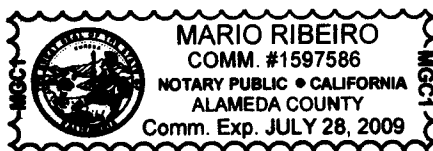
State of California                    )  
  ) ss.  
County of ALAMEDA                )

On 04/07/2008, before me, MARIO RIBEIRO, Notary Public, personally appeared **GUANGHONG LUO** who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person 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.

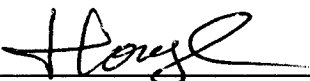
  
\_\_\_\_\_  
Notary Public



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PATENT  
Atty. Docket No.: F3439

Title of Invention: **METHOD AND SYSTEM FOR PROVIDING A PERPENDICULAR  
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\_\_\_\_\_  
LIUBO HONG

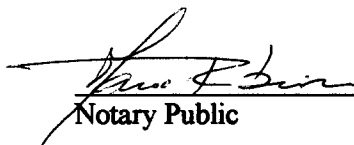
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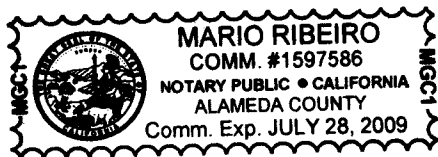
State of California                    )  
  ) ss.  
County of ALAMEDA                )

On 04/04/2008, before me, MARIO RIBEIRO, Notary Public, personally appeared **LIUBO HONG** who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

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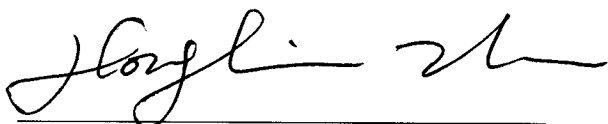
  
\_\_\_\_\_  
Notary Public



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Atty. Docket No.: F3439

Title of Invention: **METHOD AND SYSTEM FOR PROVIDING A PERPENDICULAR  
MAGNETIC RECORDING HEAD**



HONGLIN ZHU

4/8/2008

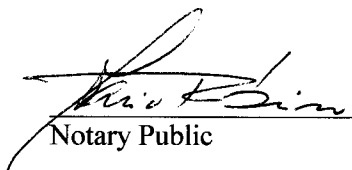
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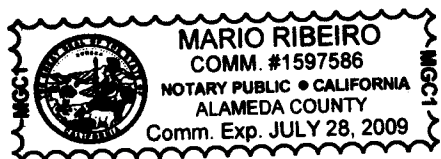
State of California )  
County of ALAMEDA ) ss.

On 04/08/2008, before me, MARIO RIBEIRO, Notary Public, personally appeared **HONGLIN ZHU** who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

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Notary Public



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Title of Invention: **METHOD AND SYSTEM FOR PROVIDING A PERPENDICULAR  
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Yun-Fei Li  
YUN-FEI LI

4/14/08  
Date

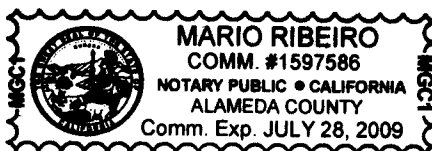
State of California                    )  
  ) ss.  
County of ALAMEDA                    )

On 04/14/2008, before me, MARIO RIBEIRO, Notary Public, personally appeared YUN-FEI LI who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person 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.

Mario Ribeiro  
Notary Public



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Atty. Docket No.: F3439

Title of Invention: **METHOD AND SYSTEM FOR PROVIDING A PERPENDICULAR  
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YINGJIAN CHEN

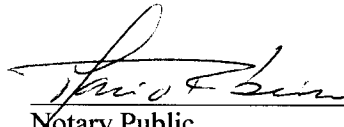
April. 8. 2008  
\_\_\_\_\_  
Date

State of California                     )  
  ) ss.  
County of ALAMEDA                     )

On 04/08/2008, before me, MARIO RIBEIRO, Notary Public, personally appeared **YINGJIAN CHEN** who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

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Notary Public

