

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

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>FENG LIU</td> <td>10/05/2012</td> </tr> <tr> <td>JINQIU ZHANG</td> <td>11/13/2012</td> </tr> <tr> <td>ZHIGANG BAI</td> <td>10/05/2012</td> </tr> <tr> <td>YUGANG WANG</td> <td>10/08/2012</td> </tr> </tbody> </table>		Name	Execution Date	FENG LIU	10/05/2012	JINQIU ZHANG	11/13/2012	ZHIGANG BAI	10/05/2012	YUGANG WANG	10/08/2012
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FENG LIU	10/05/2012										
JINQIU ZHANG	11/13/2012										
ZHIGANG BAI	10/05/2012										
YUGANG WANG	10/08/2012										
RECEIVING PARTY DATA											
Name:	WESTERN DIGITAL (FREMONT), LLC										
Street Address:	44100 OSGOOD ROAD										
City:	FREMONT										
State/Country:	CALIFORNIA										
Postal Code:	94539										
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>13631808</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13631808						
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Application Number:	13631808										
CORRESPONDENCE DATA											
Fax Number:	9496726604										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone:	(949) 672-7871										
Email:	renee.quick@wdc.com										
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										
ATTORNEY DOCKET NUMBER:	F6025										
NAME OF SUBMITTER:	Renee M. Quick										
Total Attachments: 5											

CH \$40.00 13631808

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ASSIGNMENT

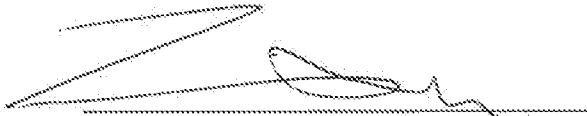
Whereas, we, FENG LIU, a citizen of the United States of America, residing at San Ramon, California; JINQIU ZHANG, a citizen of the United States of America, residing at Fremont, California; ZHIGANG BAI, a citizen of China, residing at Milpitas, California; and YUGANG WANG, a citizen of the United States of America, residing at Milpitas, California, have invented certain new and useful improvements in PERPENDICULAR MAGNETIC RECORDING WRITE HEAD (hereafter "Improvements") for which we have executed an application for a United States Patent filed September 28, 2012, Application No. 13/631,808 (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.

Title of Invention: PERPENDICULAR MAGNETIC RECORDING WRITE HEAD


FENG LIU

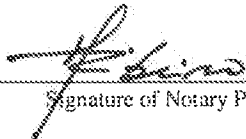
October 5, 2012
Date

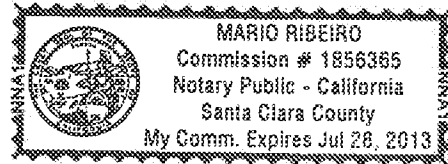
State of California)
) ss.
County of ALAMEDA)

On 10/05/12, before me, MARIO RIBEIRO, Notary Public, personally appeared FENG LIU 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.

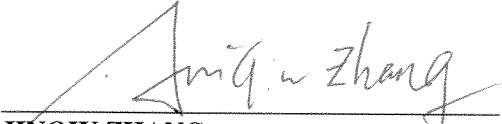
Signature: 
Signature of Notary Public



ASSIGNMENT

PATENT
Atty. Docket No.: F6025

Title of Invention: **PERPENDICULAR MAGNETIC RECORDING WRITE HEAD**

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JINQIU ZHANG

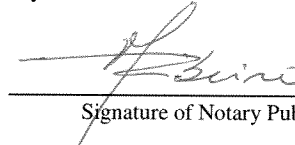
11/13/2012
Date

State of California)
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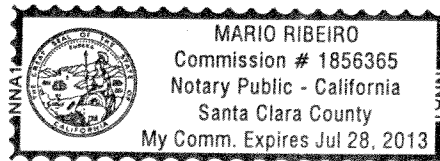
On 11/13/12, before me, MARIO RIBEIRO, Notary Public, personally appeared **JINQIU ZHANG** who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized 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.

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Title of Invention: **PERPENDICULAR MAGNETIC RECORDING WRITE HEAD**



ZHIGANG BAI

10/5/12

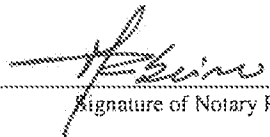
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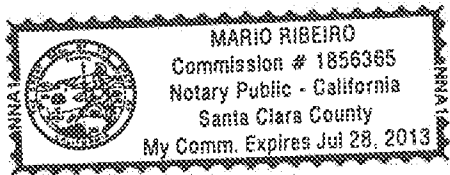
State of California)
) ss.
County of ALAMODA)

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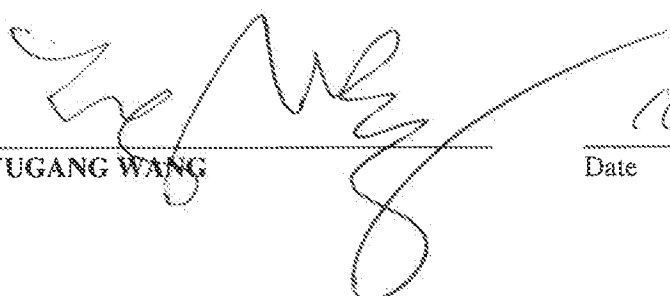
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Signature of Notary Public



Title of Invention: **PERPENDICULAR MAGNETIC RECORDING WRITE HEAD**



 YUGANG WANG

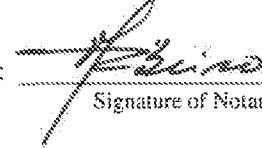
 Date 10/8/2012

State of California)
) ss.
 County of ALAMEDA)

On 10/08/12, before me, MARIO RIBEIRO, Notary Public, personally appeared **YUGANG WANG** 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.

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