

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>07/10/2012</td> </tr> <tr> <td>DEHUA HAN</td> <td>07/11/2012</td> </tr> <tr> <td>YUGANG WANG</td> <td>07/11/2012</td> </tr> <tr> <td>ZHIGANG BAI</td> <td>08/03/2012</td> </tr> <tr> <td>TAO PAN</td> <td>07/09/2012</td> </tr> </tbody> </table>		Name	Execution Date	FENG LIU	07/10/2012	DEHUA HAN	07/11/2012	YUGANG WANG	07/11/2012	ZHIGANG BAI	08/03/2012	TAO PAN	07/09/2012
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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>13493903</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13493903								
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Application Number:	13493903												
CORRESPONDENCE DATA													
Fax Number:	9496726604												
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>													
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:	F5870												
NAME OF SUBMITTER:	Charlotte Disto-Masudal												

CH \$40.00 13493903

Total Attachments: 6

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ASSIGNMENT

Whereas, we, **FENG LIU**, a citizen of the **United States of America**, residing at **San Ramon, California**; **DEHUA HAN**, a citizen of the **United States of America**, residing at **Fremont, California**; **YUGANG WANG**, a citizen of the **United States of America**, residing at **Milpitas, California**; **ZHIGANG BAI**, a citizen of **China**, residing at **Milpitas, California**; and **TAO PAN**, a citizen of the **United States of America**, residing at **San Jose, California**, have invented certain new and useful improvements in **CONFORMAL HIGH MOMENT SIDE SHIELD SEED LAYER FOR PERPENDICULAR MAGNETIC RECORDING WRITER** (hereafter "Improvements") for which we have executed an application for a United States Patent filed **June 11, 2012**, Application No. **13/493,903** (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.: F5870

Title of Invention: **CONFORMAL HIGH MOMENT SIDE SHIELD SEED LAYER FOR PERPENDICULAR MAGNETIC RECORDING WRITER**

.....


DEHUA HAN




Date

State of California)
) ss.
County of *ALAMEDA*)

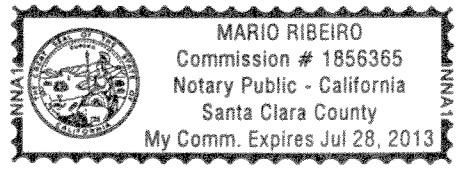
On 07/11/12, before me, MARIO RIBEIRO, Notary Public, personally appeared **DEHUA HAN** who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized 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



Title of Invention: **CONFORMAL HIGH MOMENT SIDE SHIELD SEED LAYER FOR PERPENDICULAR MAGNETIC RECORDING WRITER**



YUGANG WANG

7/11/2012

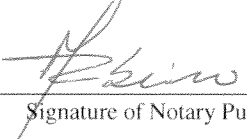
Date

State of California)
) ss.
County of ALAMEDA)

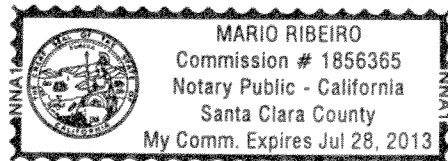
On 07/11/12, before me, MARIO RIBEIRO, Notary Public, personally appeared **YUGANG WANG** who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized 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.

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



Title of Invention: CONFORMAL HIGH MOMENT SIDE SHIELD SEED LAYER FOR PERPENDICULAR MAGNETIC RECORDING WRITER

ZHIGANG BAI
ZHIGANG BAI

8/3/12
Date

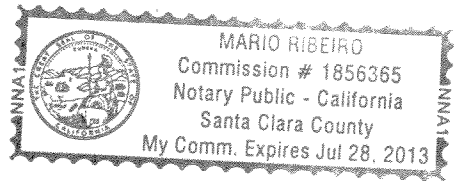
State of California)
) ss.
County of ALAMEDA)

On 08/03/12, before me, MARIO RIBEIRO, Notary Public, personally appeared **ZHIGANG BAI** 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



Title of Invention: **CONFORMAL HIGH MOMENT SIDE SHIELD SEED LAYER FOR PERPENDICULAR MAGNETIC RECORDING WRITER**



TAO PAN

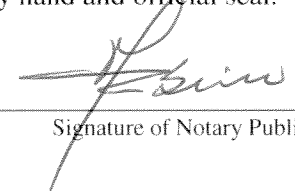
07/09/12
Date

State of California)
) ss.
County of ALAMEDA)

On 07/09/12, before me, MARIO RIBEIRO, Notary Public, personally appeared **TAO PAN** 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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WITNESS my hand and official seal.

Signature: 

Signature of Notary Public

