

02-22-2006

Form PTO-1595 (Rev. 07/05)
OMB No. 0651-0027 (exp. 6/30/2008)U.S. DEPARTMENT OF COMMERCE
United States Patent and Trademark Office

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R1950

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)

- | | |
|------------------|------------------|
| 1. Benjamin Chen | 5. Hugh C. Hiner |
| 2. Hongpin Yuan | 6. Lei Wang |
| 3. Danning Yang | 7. Yingjian Chen |
| 4. Wei Zhang | 8. Brant Nease |

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No**3. Nature of conveyance/Execution Date(s):**Execution Date(s) see continued sheet attached

- | | |
|---|---|
| <input checked="" type="checkbox"/> Assignment | <input type="checkbox"/> Merger |
| <input type="checkbox"/> Security Agreement | <input type="checkbox"/> Change of Name |
| <input type="checkbox"/> Joint Research Agreement | |
| <input type="checkbox"/> Government Interest Assignment | |
| <input type="checkbox"/> Executive Order 9424, Confirmatory License | |
| <input type="checkbox"/> Other _____ | |

2. Name and address of receiving party(ies)Name: WESTERN DIGITAL (FREMONT), INC.

Internal Address: _____

Street Address: 44100 OSGOOD ROADCity: FREMONTState: CALIFORNIACountry: USA Zip: 94539Additional name(s) & address(es) attached? ☐ Yes ☒ No**4. Application or patent number(s):**☒ This document is being filed together with a new application.

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No**5. Name and address to whom correspondence concerning document should be mailed:**Name: WESTERN DIGITAL TECHNOLOGIES, INC.Internal Address: INTELLECTUAL PROPERTY DEPT.DOCKETING E118-GStreet Address: 20511 LAKE FOREST DRIVECity: LAKE FORESTState: CALIFORNIA Zip: 92630Phone Number: (949) 672-7780Fax Number: (949) 672-6604Email Address: sandra.genua@wdc.com**6. Total number of applications and patents involved: One (1)****7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00**

- ☐ Authorized to be charged by credit card
- ☒ Authorized to be charged to deposit account
- ☐ Enclosed
- ☐ None required (government interest not affecting title)

8. Payment Informationa. Credit Card Last 4 Numbers _____
Expiration Date _____b. Deposit Account Number 23-1055Authorized User Name Milad G. Shara, Esq.**9. Signature:**

Signature

Date

Jonathan E. Prejean, Esq., Reg. No. 52,132

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

10

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, V.A. 22313-1450

02/21/2006 DBYRNE 00000036 231055 11352652

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PATENT
REEL: 017574 FRAME: 0654

Continued Sheet

Form **PTO-1595** Execution Date(s)

- 1) 01/25/2006
- 2) 01/18/2006
- 3) 01/23/2006
- 4) 01/30/2006
- 5) 02/02/2006
- 6) 01/20/2006
- 7) 01/18/2006
- 8) 01/28/2006

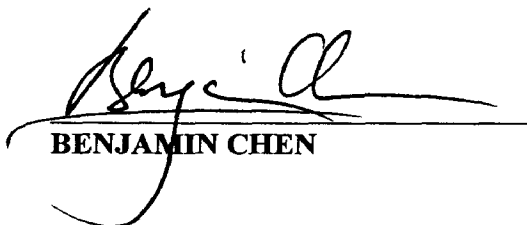
ASSIGNMENT

Whereas, I, **BENJAMIN CHEN**, a citizen of **USA**, residing at **San Jose, California**, have invented certain new and useful improvements in **METHOD AND SYSTEM FOR PROVIDING A SMALLER CRITICAL DIMENSION MAGNETIC ELEMENT UTILIZING A SINGLE LAYER MASK** (hereafter "Improvements") for which I have executed an application for a United States Patent filed on **HEREWITH**, Application No. **UNKNOWN** (hereafter "Application"); and

Whereas, Western Digital (Fremont), Inc. (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, I, the inventor, do hereby acknowledge that I 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 I 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.

I hereby covenant and agree that I 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.



BENJAMIN CHEN

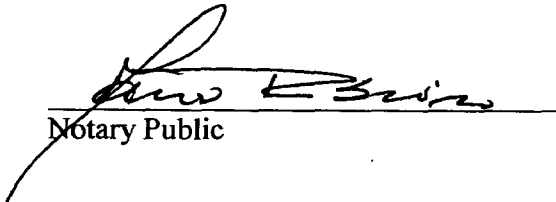
1-25-06

Date

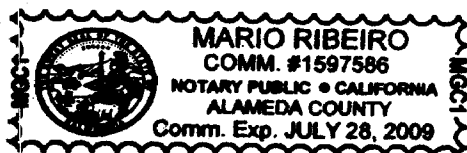
State of California)
) ss.
County of ALAMEDA)

On 25 JAN 2006, before me, MARIO RIBEIRO, Notary Public, personally appeared **BENJAMIN CHEN** and 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 executed the same in his authorized capacity, and that by his signature on the instrument the person executed the instrument.

Witness my hand and official seal.



Notary Public



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ASSIGNMENT

Whereas, I, **HONGPING YUAN**, a citizen of USA, residing at **Fremont, California**, have invented certain new and useful improvements in **METHOD AND SYSTEM FOR PROVIDING A SMALLER CRITICAL DIMENSION MAGNETIC ELEMENT UTILIZING A SINGLE LAYER MASK** (hereafter "Improvements") for which I have executed an application for a United States Patent filed on **HEREWITH**, Application No. **UNKNOWN** (hereafter "Application"); and

Whereas, **Western Digital (Fremont), Inc.** (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, I, the inventor, do hereby acknowledge that I 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 I 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.

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HONGPING YUAN

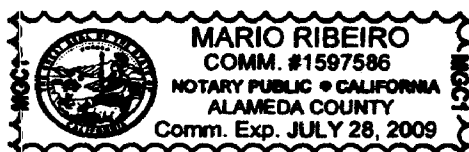
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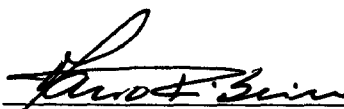
Date

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

On 25 JAN 2006, before me, MARIO RIBEIRO, Notary Public, personally appeared **HONGPING YUAN** and 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 executed the same in his authorized capacity, and that by his signature on the instrument the person executed the instrument.

Witness my hand and official seal.





Notary Public

ASSIGNMENT

Whereas, I, **DANNING YANG**, a citizen of P.R. China, residing at Fremont, California, have invented certain new and useful improvements in **METHOD AND SYSTEM FOR PROVIDING A SMALLER CRITICAL DIMENSION MAGNETIC ELEMENT UTILIZING A SINGLE LAYER MASK** (hereafter "Improvements") for which I have executed an application for a United States Patent filed on **HEREWITH**, Application No. **UNKNOWN** (hereafter "Application"); and

Whereas, Western Digital (Fremont), Inc. (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, I, the inventor, do hereby acknowledge that I 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 I 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.

I hereby covenant and agree that I 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.



DANNING YANG


1/23/06

Date

State of California)
) ss.
County of ALAMEDA)

On 1/23/06, before me, MARIO RIBEIRO, Notary Public, personally appeared **DANNING YANG** and 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 executed the same in his authorized capacity, and that by his signature on the instrument the person executed the instrument.

Witness my hand and official seal.



Notary Public



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ASSIGNMENT

Whereas, I, **WEI ZHANG**, a citizen of **P.R. China**, residing at **Fremont, California**, have invented certain new and useful improvements in **METHOD AND SYSTEM FOR PROVIDING A SMALLER CRITICAL DIMENSION MAGNETIC ELEMENT UTILIZING A SINGLE LAYER MASK** (hereafter "Improvements") for which I have executed an application for a United States Patent filed on **HEREWITH**, Application No. **UNKNOWN** (hereafter "Application"); and

Whereas, **Western Digital (Fremont), Inc.** (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, I, the inventor, do hereby acknowledge that I 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 I 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.

I hereby covenant and agree that I 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.



WEI ZHANG

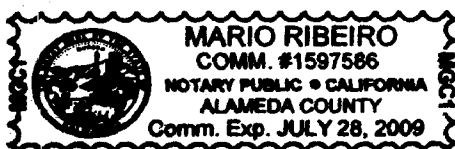
1/30/06
Date

State of California)
) ss.
County of ALAMEDA)

On 02-FEB-2006, before me, MARIO RIBEIRO, Notary Public, personally appeared **WEI ZHANG** and 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 executed the same in his authorized capacity, and that by his signature on the instrument the person executed the instrument.

Witness my hand and official seal.


Notary Public



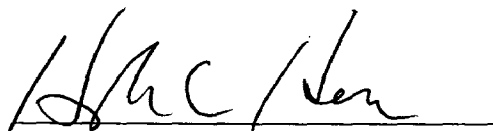
ASSIGNMENT

Whereas, I, **HUGH C. HINER**, a citizen of USA, residing at **Fremont, California**, have invented certain new and useful improvements in **METHOD AND SYSTEM FOR PROVIDING A SMALLER CRITICAL DIMENSION MAGNETIC ELEMENT UTILIZING A SINGLE LAYER MASK** (hereafter "Improvements") for which I have executed an application for a United States Patent filed on **HEREWITH**, Application No. **UNKNOWN** (hereafter "Application"); and

Whereas, Western Digital (Fremont), Inc. (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, I, the inventor, do hereby acknowledge that I 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 I 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.

I hereby covenant and agree that I 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.

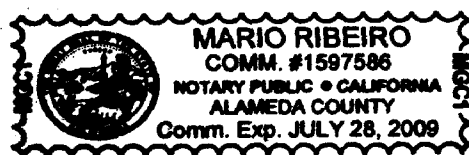

HUGH C. HINER

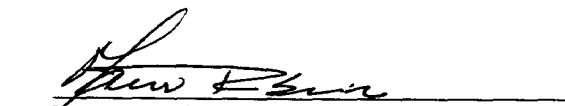
02/02/06
Date

State of California)
) ss.
County of ALAMEDA)

On 02 FEB 2006, before me, MARIO RIBEIRO, Notary Public, personally appeared **HUGH C. HINER** and 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 executed the same in his authorized capacity, and that by his signature on the instrument the person executed the instrument.

Witness my hand and official seal.




Notary Public

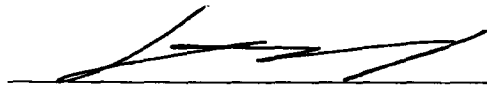
ASSIGNMENT

Whereas, I, **LEI WANG**, a citizen of USA, residing at **Fremont, California**, have invented certain new and useful improvements in **METHOD AND SYSTEM FOR PROVIDING A SMALLER CRITICAL DIMENSION MAGNETIC ELEMENT UTILIZING A SINGLE LAYER MASK** (hereafter "Improvements") for which I have executed an application for a United States Patent filed on **HEREWITH**, Application No. **UNKNOWN** (hereafter "Application"); and

Whereas, Western Digital (Fremont), Inc. (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, I, the inventor, do hereby acknowledge that I 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 I 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.

I hereby covenant and agree that I 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.



LEI WANG

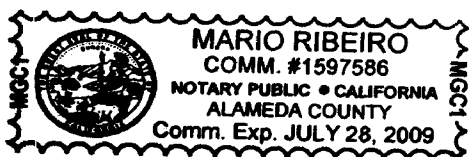
1/20/06
Date

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

On 20 Jan 2006, before me, MARIO RIBEIRO, Notary Public, personally appeared **LEI WANG** and 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 executed the same in his authorized capacity, and that by his signature on the instrument the person executed the instrument.

Witness my hand and official seal.


Notary Public



ASSIGNMENT

Whereas, I, Yingjian Chen, a citizen of P.R. China, residing at Fremont, California, have invented certain new and useful improvements in **METHOD AND SYSTEM FOR PROVIDING A SMALLER CRITICAL DIMENSION MAGNETIC ELEMENT UTILIZING A SINGLE LAYER MASK** (hereafter "Improvements") for which I have executed an application for a United States Patent filed on **HEREWITH**, Application No. **UNKNOWN** (hereafter "Application"); and

Whereas, Western Digital (Fremont), Inc. (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, I, the inventor, do hereby acknowledge that I 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 I 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.

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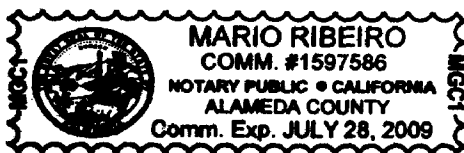

Yingjian Chen

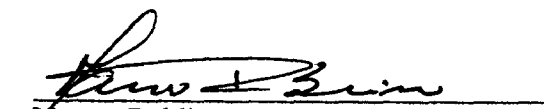
1/18/2006
Date

State of California)
) ss.
County of ALAMEDA)

On 25 JAN 2006, before me, MARIO RIBEIRO, Notary Public, personally appeared Yingjian Chen and 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 executed the same in his authorized capacity, and that by his signature on the instrument the person executed the instrument.

Witness my hand and official seal.




Notary Public


ASSIGNMENT

Whereas, I, **Brant Nease**, a citizen of USA, residing at **Fremont, California**, have invented certain new and useful improvements in **METHOD AND SYSTEM FOR PROVIDING A SMALLER CRITICAL DIMENSION MAGNETIC ELEMENT UTILIZING A SINGLE LAYER MASK** (hereafter "Improvements") for which I have executed an application for a United States Patent filed on **HEREWITH**, Application No. **UNKNOWN** (hereafter "Application"); and

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Brant Nease

1-28-06
Date

State of California)
) ss.
County of)

On _____, before me, _____, Notary Public, personally appeared **Brant Nease** and 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 executed the same in his authorized capacity, and that by his signature on the instrument the person executed the instrument.

Witness my hand and official seal.

Notary Public