

## PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT3048274

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
JIANGRONG CAO	09/30/2014
MICHAEL V. MORELLI	09/28/2014
MATTHEW R. GIBBONS	09/29/2014
PENG ZHANG	09/18/2014
BRAD V. JOHNSON	09/30/2014
HONGXING YUAN	09/19/2014
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	WESTERN DIGITAL (FREMONT), LLC
<b>Street Address:</b>	44100 OSGOOD ROAD
<b>City:</b>	FREMONT
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	94539
<b>PROPERTY NUMBERS Total: 2</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	14324294
Application Number:	62010072
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(949)672-6604
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Phone:</b>	(949) 672-7871
<b>Email:</b>	sandra.jackson@wdc.com
<b>Correspondent Name:</b>	WESTERN DIGITAL
<b>Address Line 1:</b>	ATTN: IP LAW DEPARTMENT
<b>Address Line 2:</b>	3355 MICHELSON DRIVE, SUITE 100
<b>Address Line 4:</b>	IRVINE, CALIFORNIA 92612
<b>ATTORNEY DOCKET NUMBER:</b>	F7425
<b>NAME OF SUBMITTER:</b>	SANDRA JACKSON
<b>SIGNATURE:</b>	/Sandra Jackson/
<b>DATE SIGNED:</b>	10/01/2014

PATENT

**Total Attachments: 7**

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ASSIGNMENT

Whereas, we, **JIANGRONG CAO**, a citizen of the United States of America, residing at Fremont, California; **MICHAEL V. MORELLI**, a citizen of the United States of America, residing at San Jose, California; **MATTHEW R. GIBBONS**, a citizen of the United States of America, residing at San Jose, California; **PENG ZHANG**, a citizen of China, residing at Pleasanton, California; **BRAD V. JOHNSON**, a citizen of the United States of America, residing at Santa Clara, California; and **HONGXING YUAN**, a citizen of Singapore, residing at San Ramon, California, have invented certain new and useful improvements in **INTERFERING NEAR FIELD TRANSDUCER HAVING A WIDE METAL BAR FEATURE FOR ENERGY ASSISTED MAGNETIC RECORDING** (hereafter "Improvements") for which we have executed an application for a United States Patent filed July 7, 2014, Application No. 14/324,294 and a provisional application for a United States Patent filed June 10, 2014, Application No. 62/010,072 (hereafter "Applications"); 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 Applications.

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 Applications and all divisions, renewals and continuations thereof, and all applications claiming priority to the Applications, 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.

We hereby covenant and agree that we will communicate to the Assignee, its successors, legal representatives and assigns, any facts known to us 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.: F7425

Title of Invention: INTERFERING NEAR FIELD TRANSDUCER HAVING A WIDE METAL  
BAR FEATURE FOR ENERGY ASSISTED MAGNETIC RECORDING

  
JIANGRONG CAO


9/30/2014  
Date

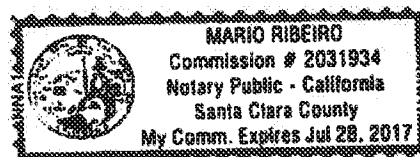
State of California )  
County of ALAMEDA ) ss.

On 09/30/14, before me, MARIO RIBEIRO, Notary Public, personally appeared JIANGRONG CAO 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.: F7425**

**Title of Invention: INTERFERING NEAR FIELD TRANSDUCER HAVING A WIDE METAL BAR FEATURE FOR ENERGY ASSISTED MAGNETIC RECORDING**

MICHAEL V. MORELLI

Date 9/22/14

State of California )  
 ) ss.  
County of ALAMEDA )

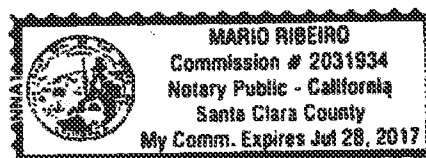
On 09/29/14, before me, MARIO RIBEIRO, Notary Public, personally appeared **MICHAEL V. MORELLI** who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their 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



PATENT  
Atty. Docket No.: F7425

Matthew R. Gibbons  
MATTHEW R. GIBBONS


Date 09/29/2014

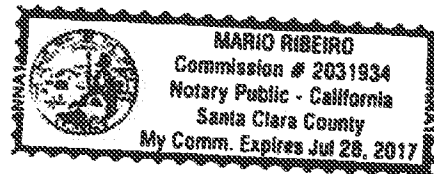
State of California )  
 ) ss.  
County of ALAMEDA )

On 09/29/14, before me, MARIO RIBEIRO, Notary Public, personally appeared MATTHEW R. GIBBONS 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.

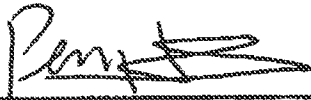
Signature:   
Signature of Notary Public



ASSIGNMENT

PATENT  
Atty. Docket No.: F7425

Title of Invention: **INTERFERING NEAR FIELD TRANSDUCER HAVING A WIDE METAL BAR FEATURE FOR ENERGY ASSISTED MAGNETIC RECORDING**

  
\_\_\_\_\_  
PENG ZHANG

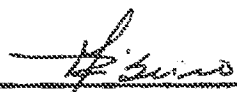
09/18/2014  
\_\_\_\_\_  
Date

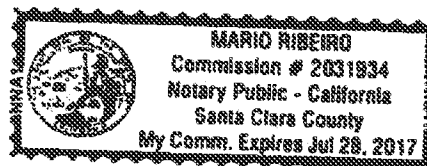
State of California            )  
  ) ss.  
County of ALAMEDA        )

On 09/19/14, before me, MARIO RIBEIRO, Notary Public, personally appeared **PENG 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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WITNESS my hand and official seal.

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



## ASSIGNMENT

**PATENT**  
**Atty. Docket No.: F7425**

**Title of Invention: INTERFERING NEAR FIELD TRANSDUCER HAVING A WIDE METAL BAR FEATURE FOR ENERGY ASSISTED MAGNETIC RECORDING**

  
BRAD V. JOHNSON

30 SEP 2014

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Date

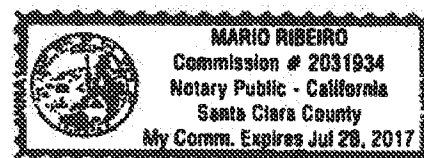
State of California )  
 ) ss.  
County of ALAMEDA )

On 09/30/14, before me, MARIO TRIBEIRO, Notary Public, personally appeared **BRAD V. JOHNSON** 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

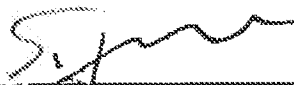




ASSIGNMENT

PATENT  
Atty. Docket No.: F7425

Title of Invention: INTERFERING NEAR FIELD TRANSDUCER HAVING A WIDE METAL  
BAR FEATURE FOR ENERGY ASSISTED MAGNETIC RECORDING

  
\_\_\_\_\_  
HONGXING YUAN


09/19/2014  
Date

State of California                    )  
  ) ss.  
County of ALAMEDA                )

On 09/19/14 before me, MARIO RIBEIRO, Notary Public, personally  
appeared HONGXING YUAN 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

