503158876 01/30/2015

EPAS ID: PAT3205490

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

SUBMISSION TYPE: NEW ASSIGNMENT NATURE OF CONVEYANCE: ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JIANGRONG CAO	09/30/2014
MICHAEL V. MORELLI	09/29/2014
BRAD V. JOHNSON	09/30/2014
MATTHEW R. GIBBONS	09/29/2014

RECEIVING PARTY DATA

Name:	WESTERN DIGITAL (FREMONT), LLC
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Postal Code:	94539

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14609580

CORRESPONDENCE DATA

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Address Line 2: 3355 MICHELSON DRIVE, SUITE 100

Address Line 4: IRVINE, CALIFORNIA 92612

ATTORNEY DOCKET NUMBER: F7413.D1 NAME OF SUBMITTER: SUSAN BARTHOLOMEW SIGNATURE: /Susan Bartholomew/ **DATE SIGNED:** 01/30/2015

Total Attachments: 6

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PATENT REEL: 034851 FRAME: 0639 503158876

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PATENT REEL: 034851 FRAME: 0640

Atty. Docket No.: F7413

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; BRAD V. JOHNSON, a citizen of the United States of America, residing at Santa Clara, California; and MATTHEW R. GIBBONS, a citizen of the United States of America, residing at City, California, have invented certain new and useful improvements in INTERFERING NEAR FIELD TRANSDUCER 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. 14/324,466 and a provisional application for a United States Patent filed June 10, 2014, Application No. 62/010,038 (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.

Atty. Docket No.: F7413

Title of Invention: INTERFERING NEA MAGNETIC RECORDING	R FIELD TRANSDUCER FOR ENERGY ASSISTED
JIANGRONG CAO	9/30/2014 Date
whose name(s) is/are subscribed to the with executed the same in his/her/their authorized instrument the person(s), or the entity upon be	Notary Public, personally me on the basis of satisfactory evidence to be the person(s) hin instrument and acknowledged to me that he/she/they capacity(ies), and that by his/her/their signature(s) on the half of which the person(s) acted, executed the instrument.
WITNESS my hand and official seal. Signature: Signature of Notary Public	MARIO RIBEIRO Commission # 2031934 Notary Public - California Santa Clara County My Comm. Expires Jul 28, 2017

Title of Invention: INTERFERING NEAR FIELD TRANSDUCER FOR ENERGY ASSISTED MAGNETIC RECORDING		
MICHAEL V. MORELLÍ Date		
State of California)) ss. County of A21MEM)		
On		
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 Signature of Notary Public Sants Clara County My Corum. Expires Jul 28, 2017		

Atty. Docket No.: F7413

Title of Invention: INTERFERING NEAR FIELD TRANSDUCER FOR ENERGY ASSISTED MAGNETIC RECORDING		
BRAD V. JOHNSON	305692014 Date	
State of California)) ss. County of A CAMEDA)		
County of A CAMEDA)		
On		
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	MARIO RIBEIRO Commission # 2031934 Notary Public - California Santa Clara County My Comm. Expires Jul 28, 2017	

ASSIGNMENT PATENT
Atty. Docket No.: F7413

Title of Invention: INTERFERING NEAR FIELD TRANSDUCER FOR ENERGY ASSISTED MAGNETIC RECORDING State of California County of ALAMENA) On <u>07/29/14</u>, before me, <u>MALIO ZIBEILO</u>. 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. 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 Commission # 2031934 Notary Public - California Santa Clara County My Comm Expires Jul 28, 2017

U.S. Serial No. 14/324,466 (Attorney Docket No. F7413) U.S. Serial No. 62/010,038 (Attorney Docket No. F7413.P)

ACCEPTANCE OF ASSIGNMENT

(Patent Application)

Assignee Western Digital Technologies, Inc. ("Assignee") hereby acknowledges that Jiangrong CAO, Michael V. MORELLI, Brad. V. JOHNSON and Matthew R. GIBBONS have executed the above assignment concerning a utility (provisional or non-provisional) or design patent application entitled

"INTERFERING NEAR FIELD TRANSDUCER FOR ENERGY ASSISTED MAGNETIC RECORDING"

filed with the U.S. Patent & Trademark Office on July 07, 2014 and assigned Serial No. 14/324.466, and

"INTERFERING NEAR FIELD TRANSDUCER FOR ENERGY ASSISTED MAGNETIC RECORDING"

filed with the U.S. Patent & Trademark Office on June 10, 2014 and assigned Serial No. 62/010,038.

Assignee further acknowledges receipt of the entire right, title and interest in and to the patents and/or patent application(s) listed herein ("Application(s)"), 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 listed Application(s) in any country or countries foreign to the United States and all extensions, renewals and reissues thereof.

Signature:

Rambod/Nader, Patent Counsel

Assignee Western Digital (Fremont), LLC

PATENT REEL: 034851 FRAME: 0646

Date: 1/14/15

RECORDED: 01/30/2015