503261974 04/13/2015

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT3308592

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
FENG LIU	04/13/2015
EL-AMINE SALHI	04/10/2015
MING SUN	04/10/2015
TAO PAN	04/09/2015

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

Property Type	Number
Application Number:	14667506

CORRESPONDENCE DATA

Fax Number: (949)672-6604

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Phone: (949) 672-7871

Email: paulette.halili@wdc.com **Correspondent Name: WESTERN DIGITAL**

ATTN: IP LAW DEPARTMENT Address Line 1:

Address Line 2: 3355 MICHELSON DRIVE, SUITE 100

Address Line 4: IRVINE, CALIFORNIA 92612

ATTORNEY DOCKET NUMBER:	F7737
NAME OF SUBMITTER:	PAULETTE HALILI
SIGNATURE:	/Paulette Halili/
DATE SIGNED:	04/13/2015

Total Attachments: 5

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> **PATENT REEL: 035398 FRAME: 0109** 503261974

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> PATENT REEL: 035398 FRAME: 0110

ASSIGNMENT

Whereas, we, FENG LIU, a citizen of the United States of America, residing at SAN RAMON, California; EL-AMINE SALHI, a citizen of the United States of America, residing at FREMONT, California; MING SUN, a citizen of the United States of America, residing at SAN JOSE, 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 MAGNETIC WRITER HAVING A GRADIENT IN SATURATION MAGNETIZATION OF THE SHIELDS AND RETURN POLE (hereafter "Improvements") for which we have executed an application for a United States Patent filed March 24, 2015, Application No. 14/667,506 (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 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.

FENG LIU	April 13, 20 15 Date
	certificate verifies only the identity of the individual who signed, and not the truthfulness, accuracy, or validity of that document,
State of California	
County of ALAMEDA)	
On <u>04/13/15</u> , before me, <u>/</u>	14410 2165160. Notary Public, personall the basis of satisfactory evidence to be the person(s) whose
name(s) isvare subscribed to the within instru	ment and acknowledged to me that he/she/they executed the and that by his/her/their signature(s) on the instrument the
name(s) is/are subscribed to the within instru same in his/her/their authorized capacity(ies) person(s), or the entity upon behalf of which t	ment and acknowledged to me that he/she/they executed the and that by his/her/their signature(s) on the instrument the
name(s) is are subscribed to the within instrustion in his/her/their authorized capacity(ies) person(s), or the entity upon behalf of which the certify under PENALTY OF PERJURY under PENALTY UNDER PE	ment and acknowledged to me that he/she/they executed the country and that by his/her/their signature(s) on the instrument the person(s) acted, executed the instrument.

Title of Invention: MAGNETIC WRITER HAVING A GRADIENT IN SATURATION

Title of Invention: MAGNETIC WRITER MAGNETIZATION OF THE SHIELDS AND R	HAVING A GRADIENT IN SATURATION ETURN POLE
ELAMINE SALHI	41015 Date
A notary public or other officer completing this certific	rate verifies only the identity of the individual who signed of the truthfulness, accuracy, or validity of that document.
State of California) ss. County of ALAMWDA)	n the traditioness, accuracy, or varionly or that opcument.
appeared EL-AMINE SALHI who proved to me or whose name(s) is/are subscribed to the within in executed the same in his/her/their authorized capac	Lio Pibeilo, Notary Public, personally a the basis of satisfactory evidence to be the person(s) strument and acknowledged to me that he/she/they city(ies), and that by his/her/their signature(s) on the f which the person(s) acted, executed the instrument.
I certify under PENALTY OF PERJURY under the paragraph is true and correct.	ne laws of the State of California that the foregoing
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: MAGNETIC WRITER MAGNETIZATION OF THE SHIELDS AND RI	HAVING A GRADIENT IN SATURATION ETURN POLE
MING SUN	Lt/10/2015
14881469 DENIA	Date
A notary public or other officer completing this certific the document to which this certificate is attached, and no	ate verifies only the identity of the individual who signed of the truthfulness, accuracy, or validity of that document.
State of California)) ss. County of ALAMEDA)	
appeared MING SUN who proved to me on the bar name(s) is/are subscribed to the within instrument a	Notary Public, personally sis of satisfactory evidence to be the person(s) whose and acknowledged to me that he/she/they executed the hat by his/her/their signature(s) on the instrument the son(s) acted, executed the instrument.
I certify under PENALTY OF PERJURY under the paragraph is true and correct.	ne laws of the State of California that the foregoing
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Title of Invention: MAGNETIC WRITER HAVING A GRADIENT IN SATURATION MAGNETIZATION OF THE SHIELDS AND RETURN POLE
7.7)
TAO PAN 04/09/2015 Date
A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.
State of California)) ss. County of ALAMEDA)
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. MARIO RIBEIRO Commission # 2031934 Notary Public - California Santa Clara County My Comm. Expires Jul 28, 2017

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