503422648 08/04/2015

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	

CONVEYING PARTY DATA

Name	Execution Date
YIMING CHEN	07/28/2015
NING ZHENG	07/30/2015

RECEIVING PARTY DATA

Name:	WESTERN DIGITAL TECHNOLOGIES, INC.	
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City:	IRVINE	
State/Country:	CALIFORNIA	
Postal Code:	92612	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14664570

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ATTORNEY DOCKET NUMBER:	T7772
NAME OF SUBMITTER:	PAULETTE HALILI
SIGNATURE:	/Paulette Halili/
DATE SIGNED:	08/04/2015

Total Attachments: 3

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PATENT 503422648 REEL: 036250 FRAME: 0705

Atty. Docket No.: T7772

ASSIGNMENT

Whereas, we, YIMING CHEN, a citizen of China(People's Republic), residing at Irvine, California; and NING ZHENG, a citizen of China(People's Republic), residing at Troy, New York, have invented certain new and useful improvements in DATA STORAGE DEVICE COMPRISING TWO-DIMENSIONAL DATA DEPENDENT NOISE WHITENING FILTERS FOR TWO-DIMENSIONAL RECORDING (hereafter "Improvements") for which we have executed an application for a United States Patent filed March 20, 2015, Application No. 14/664,570 (hereafter "Application"); and

Whereas, Western Digital Technologies, 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, 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 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.

Atty. Docket No.: T7772

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	07/28/2015
YIMING CHEN	Date
A notary public or other officer completing this	certificate verifies only the identity of the individual who s
the document to which this certificate is attached,	, and not the truthfulness, accuracy, or validity of that docum
appeared YIMING CHEN who proved to me 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, persone on the basis of satisfactory evidence to be the person in instrument and acknowledged to me that he/shed capacity(ies), and that by his/her/their signature(s) of ehalf of which the person(s) acted, executed the instrument in the same content of the same content o
I certify under PENALTY OF PERJURY unparagraph is true and correct.	nder the laws of the State of California that the fore
WITNESS my hand and official seal.	WENDY BOBELLA
Signature: Signature of Notary Public	Commission # 2050040 Notary Public - California Orange County My Comm. Expires Nov 24, 2017

Atty. Docket No.: T7772

Title of Invention: DATA STORAGE DEVICE COMPRISING TWO-DIMENSIONAL DATA DEPENDENT NOISE WHITENING FILTERS FOR TWO-DIMENSIONAL RECORDING
My They 07/30/2015 NING ZHENG 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 New York)) ss. County of
County of)
On, before me,, Notary Public, personally appeared NING ZHENG 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 New York that the foregoing paragraph is true and correct.
WITNESS my hand and official seal.
Signature: Signature of Notary Public

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PATENT REEL: 036250 FRAME: 0708