

## PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT3055179

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
CARL E. BARLOW	07/30/2014
CHUN SEI TSAI	07/30/2014
CHIRAG C. PATEL	07/30/2014
BOON SIEN CHEW	07/30/2014
THOMAS A. O'DELL	07/28/2014
DAVID E. WACHENSCHWANZ	08/14/2014
DAVID E. FOWLER	08/15/2014
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	WESTERN DIGITAL TECHNOLOGIES, INC.
<b>Street Address:</b>	3355 MICHELSON DRIVE, SUITE 100
<b>City:</b>	IRVINE
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	92612
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14015748
<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>	T6542
<b>NAME OF SUBMITTER:</b>	SANDRA JACKSON
<b>SIGNATURE:</b>	/Sandra Jackson/
<b>DATE SIGNED:</b>	10/07/2014

PATENT

**Total Attachments: 8**

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ASSIGNMENT

Whereas, we, **CARL E. BARLOW**, a citizen of the United States of America, residing at Lake Forest, California; **CHUN SEI TSAI**, a citizen of the United States of America, residing at Tustin, California; **CHIRAG C. PATEL**, a citizen of the United States of America, residing at Rancho Santa Margarita, California; **BOON SIEN CHEW**, a citizen of Malaysia, residing at Klang, Malaysia; **THOMAS A. O'DELL**, a citizen of the United States of America, residing at Sunnyvale, California; **DAVID E. WACHENSCHWANZ**, a citizen of the United States of America, residing at Saratoga, California; and **DAVID E. FOWLER**, a citizen of the United States of America, residing at San Jose, California, have invented certain new and useful improvements in **DISK DRIVE DETECTING DIFFERENT ASPERITIES ON A DISK USING DIFFERENT SENSOR BIAS SETTINGS** (hereafter "Improvements") for which we have executed an application for a United States Patent filed **August 30, 2013**, Application No. **14/015,748** (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 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.

ASSIGNMENT

PATENT  
Atty. Docket No.: T6542

Title of Invention: **DISK DRIVE DETECTING DIFFERENT ASPERITIES ON A DISK USING DIFFERENT SENSOR BIAS SETTINGS**

  
\_\_\_\_\_  
CARL E. BARLOW

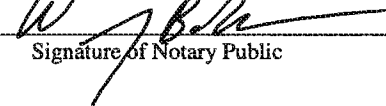
7/30/2014  
Date

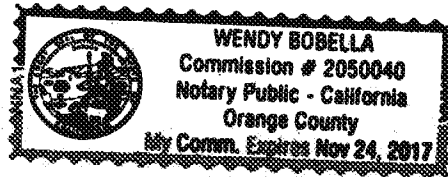
State of California                     )  
                                                      ) ss.  
County of Orange                     )

On 07/30/2014, before me, Wendy Bobella, Notary Public, personally appeared **CARL E. BARLOW** 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.: T6542

Title of Invention: **DISK DRIVE DETECTING DIFFERENT ASPERITIES ON A DISK USING DIFFERENT SENSOR BIAS SETTINGS**


.....  
  
CHUN SEI TSAI  
Date 7/30/14

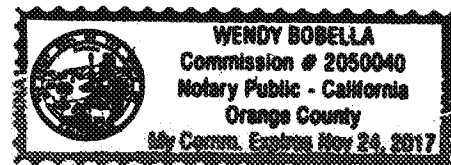
State of California )  
County of Orange ) ss.

On 07/30/2014, before me, Wendy Bobella, Notary Public, personally appeared CHUN SEI TSAI 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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Signature of Notary Public



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PATENT  
Atty. Docket No.: T6542

Title of Invention: **DISK DRIVE DETECTING DIFFERENT ASPERITIES ON A DISK USING DIFFERENT SENSOR BIAS SETTINGS**

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CHIRAG C. PATEL

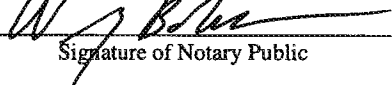
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Date

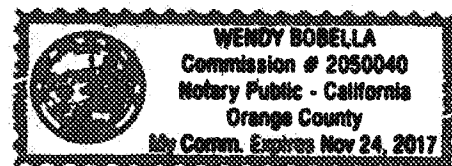
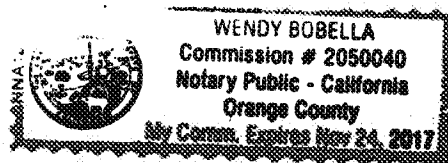
State of California                    )  
                                                  ) ss.  
County of Orange                    )

On 07/30/2014, before me, Wendy Bobella, Notary Public, personally appeared **CHIRAG C. PATEL** 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.: T6542

Title of Invention: DISK DRIVE DETECTING DIFFERENT ASPERITIES ON A DISK USING  
DIFFERENT SENSOR BIAS SETTINGS

  
\_\_\_\_\_  
BOON SIEN CHEW

30 July 2014  
\_\_\_\_\_  
Date

Witnessed by:

Lee Leong Chin  
\_\_\_\_\_  
Type/Print 1<sup>st</sup> Witness Name

  
\_\_\_\_\_  
1<sup>st</sup> Witness Signature

30 July 2014  
\_\_\_\_\_  
Date

Lee Wai Chuen  
\_\_\_\_\_  
Type/Print 2<sup>nd</sup> Witness Name

  
\_\_\_\_\_  
2<sup>nd</sup> Witness Signature

30 July 2014  
\_\_\_\_\_  
Date

**PATENT**  
Atty. Docket No.: T6542

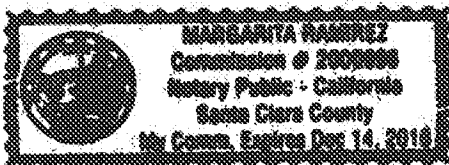
  
THOMAS A. O'DELL

Date 7/28/19

State of California )  
 ) ss.  
County of Santa Clara )

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

Signature: [Signature]  
Signature of Notary Public





ASSIGNMENT

PATENT  
Atty. Docket No.: T6542

Title of Invention: **DISK DRIVE DETECTING DIFFERENT ASPERITIES ON A DISK USING DIFFERENT SENSOR BIAS SETTINGS**

  
DAVID E. WACHENSCHWANZ


8/14/2014  
Date

State of California )  
 ) ss.  
County of San Clara )

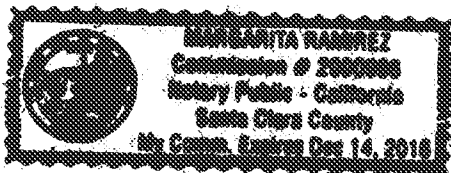
On August 14, 2014, before me, Margarita Ramirez, Notary Public, personally appeared **DAVID E. WACHENSCHWANZ** who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same 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



**PATENT**  
Atty. Docket No.: T6542

David Fowler  
and **DAVID E. FOWLER**

Date 08/15/2014

State of California )  
 ) ss.  
County of Alameda )

On 08/15/14, before me, MARLO R. BAKER, Notary Public, personally appeared and **DAVID E. FOWLER** 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

