PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
YAP HAN NG	04/08/2014
CHARLES A. PARK	04/09/2014
SONGWUT JOMTHAISONG	04/08/2014
SIRI S. WEERASOORIYA	04/15/2014
BRIAN P. RIGNEY	04/16/2014

RECEIVING PARTY DATA

Name:	WESTERN DIGITAL TECHNOLOGIES, INC.
Street Address:	3355 MICHELSON DRIVE, STE. 100
City:	IRVINE
State/Country:	CALIFORNIA
Postal Code:	92612

PROPERTY NUMBERS Total: 2

Property Type	Number
Application Number:	13922935
Application Number:	61822232

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	T6184
NAME OF SUBMITTER:	TANYA JOSEPHS
SIGNATURE:	/Tanya Josephs/
DATE SIGNED:	04/16/2014

Total Attachments: 6

PATENT

502769897 REEL: 032697 FRAME: 0060



PATENT REEL: 032697 FRAME: 0061

Atty. Docket No.: T6184

ASSIGNMENT

Whereas, we, YAP HAN NG, a citizen of Malaysia, residing at KEPONG, Malaysia; CHARLES A. PARK, a citizen of The United States of America, residing at AROMAS, California; SONGWUT JOMTHAISONG, a citizen of THAILAND, residing at BURIRAM, THAILAND; SIRI S. WEERASOORIYA, a citizen of The United States of America, residing at CAMPBELL, California; and BRIAN P. RIGNEY, a citizen of The United States of America, residing at LOUISVILLE, Colorado, have invented certain new and useful improvements in DISK DRIVE PERFORMING SPIRAL SCAN OF DISK SURFACE TO DETECT RESIDUAL DATA (hereafter "Improvements") for which we have executed an application for a United States Patent filed 13/922,935, Application No. June 20, 2013 and a provisional application for a United States Patent filed May 10, 2013, Application No. 61/822,232 (hereafter "Applications"); 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 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.: T6184

Title of Invention: DISK DRIVE PERFORMING SPIRAL SCAN OF DISK SURFACE TO DETECT RESIDUAL DATA State of California on April 9, 204, before me, 18a _, Notary Public, personally appeared CHARLES A. PARK who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) Ge/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in Gis/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 ISABEL VALENCIA

Commission # 1987500 Notary Public - California Santa Clara County Comm. Expires Sep 5, 2016

Title of Invention: DISK DRIVE PERFORMING SPIRAL SCAN OF DISK SURFACE TO DETECT RESIDUAL DATA				
SONGWUT JOMTHAISONG	8/4/2014 Date			
Witnessed by: BOWORN PANYA VORAVAT Type/Print 1st Witness Name	Bonera D 1st Witness Signature	8/4/2014 Date		
Type/Print 2 nd Witness Name	(, S)R((HA GENTHO) 2 nd Witness Signature	8/4/2014 Date		

Atty. Docket No.: T6184

Title of Invention: DISK DRIVE PERFORMING SPIRAL SCAN OF DISK SURFACE TO DETECT RESIDUAL DATA State of California encia, Notary Public, personally appeared SIRI S. WEERASOORIYA who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) istare 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 ISABEL VALENCIA Commission # 1987500

Notary Public - California Santa Clara County My Comm. Expires Sep 5, 2016 ASSIGNMENT PATENT
Atty. Docket No.: T6184

Title of Invention: DISK DRIVE PERFORMING SPIRAL SCAN OF DISK SURFACE TO DETECT RESIDUAL DATA **BRIAN P. RIGNEY** State of Colorado) ss. County of Orange. , before me, personally appeared BRIAN P. RIGNEY 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. WENDY BOBELLA Commission # 2050040 Notary Public - California Signature of Notary Public Orange County My Comm. Expires Nov 24.

RECORDED: 04/16/2014