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S. DEPARTMENT OF COMMERCE ed States Patent and Trademark Office

A1681

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4. Application or patent number(s): A. Patent Application No.(s) Additional numbers attached?	1. Teddy T.C. Chen 2. Jinsheng Bill Jang 3. Jie Yu 4. Jonathan V. Nguyen Additional name(s) of conveying party(ies) attached? Yes 3. Nature of conveyance/Execution Date(s): Execution Date(s) 1 & 4) 08/23/06 2)08/22/06 3) 08/25/06 Assignment Merger Security Agreement Change of Name Joint Research Agreement Government Interest Assignment Executive Order 9424, Confirmatory License Other 4. Application or patent number(s): A. Patent Application No.(s) Additional numbers 5. Name and address to whom correspondence concerning document should be mailed:	Name: WESTERN DIGITAL TECHNOLOGIES, INC. Internal Address:
2. Jinsheng Bill Jang 3. Jis yu 4. Jonathan V. Nguyen Additional name(s) of conveying party(ies) attached? Ves V No 3. Nature of conveyance/Execution Date(s): Execution Date(s) 1 & 4) 08/23/06 2)08/22/05 3) 08/25/06 V Assignment	2. Jinsheng Bill Jang 3. Jie Yu 4. Jonathan V. Nguyen Additional name(s) of conveying party(ies) attached? Yes 3. Nature of conveyance/Execution Date(s): Execution Date(s) 1 & 4) 08/23/06 2) 08/22/06 3) 08/25/06 Assignment Merger Security Agreement Change of Name Joint Research Agreement Government Interest Assignment Executive Order 9424, Confirmatory License Other 4. Application or patent number(s): A. Patent Application No.(s) Additional numbers 5. Name and address to whom correspondence concerning document should be mailed:	Internal Address:
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Frione mumber: (949) 677-7780	Phone Number:_(949) 672-7780	Expiration Date
b. Deposit Account Number <u>23-1209</u>	•	b. Deposit Account Number 23-1209
Email Address: sandra.genua@wdc.com Authorized User Name Milad G. Shara, Esq.		Authorized User Name Milad G. Shara, Esq.
9. Signature: (5 P)		64/22/22/
Signature Date	1000	01/33/3006
	Jonathan E. Prejean, Esq., Reg. No. 52,1	
	Name of Person Signing	

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to: Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

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PATENT REEL: 018345 FRAME: 0985

PATENT

Atty. Docket No.: A1681

ASSIGNMENT

Whereas, we, TEDDY T. C. CHEN, a citizen of USA, residing at Huntington Beach, California; JINSHENG BILL JANG a citizen of TAIWAN, residing at Irvine, California; JIE YU, a citizen of CHINA, residing at Irvine, California; and JONATHAN V. NGUYEN, a citizen of USA, residing at Laguna Niguel, California, have invented certain new and useful improvements in DISK DRIVE OPERABLE WITH FIRST AND SECOND SERVO PATTERNS IN A PERPENDICULAR MEDIA RECORDING ENVIRONMENT (hereafter "Improvements") for which we have executed an application for a United States Patent filed HEREWITH, Application No. UNKNOWN (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 me 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.

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Page 1 of 5

ASSIGNMENT

Atty. Docket No.: A1681

PATENT

ADRIANA VARELA
Commission # 1487962
Notary Public - California
Orange County
My Comm. Expires May 19, 2008

PATENT

Atty. Docket No.: A1681

Title of Invention: DISK DRIVE OPERABLE WITH FIRST AND SECOND SERVO PATTERNS IN A PERPENDICULAR MEDIA RECORDING ENVIRONMENT
JINSHENG BILL JANG Date Date
State of California) ss. County of O(ONGL) On 8-22-06, before me, ARIANA VACE (A, Notary Public, personally appeared JINSHENG BILL JANG and proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument, and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.
WITNESS my hand and official seal. Notary Public
ADRIANA VARELA Commission # 1487962 Notary Public - California Orange County My Comm. Expires May 19, 2008

Page & of &

Atty. Docket No.: A1681

Ja Vja	08/25/06
HE YU	Date
appeared JIE YU and proved to me on the subscribed to the within instrument, and	Adriana Vale (A), Notary Public, personal basis of satisfactory evidence to be the person whose name acknowledged to me that he/she executed the same in his/gnature on the instrument the person, or the entity upon belitrument.
WITNESS my hand and official seal.	Adria Vaula Notary Public

ASSIGNMENT PATENT

Atty. Docket No.: A1681

Title of Invention: DISK DRIVE OPERABLE WITH FIRST AND SECOND SERVO PATTERNS IN A PERPENDICULAR MEDIA RECORDING ENVIRONMENT
Jonathan V. NGUYEN Date
State of California) ss. County of Oronge On 8-23-06, before me, Adrian Valeia, Notary Public, personally appeared JONATHAN V. NGUYEN and proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument, and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument. WITNESS my hand and official seal.
Notary Public
ADDIANA MADELA

RECORDED: 09/22/2006