PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3572880

| SUBMISSION TYPE: | CORRECTIVE ASSIGNMENT |
|-----------------------|--|
| NATURE OF CONVEYANCE: | Corrective Assignment to correct the SECOND INVENTOR NAME AND THIRD INVENTOR MISSING previously recorded on Reel 036793 Frame 0326. Assignor(s) hereby confirms the CORRECT SECOND INVENTOR NAME IS: BILL PHUC TRAN AND THIRD INVENTOR AZNIZAM ABDULLAH SALEHUDIN. |

CONVEYING PARTY DATA

| Name | Execution Date |
|----------------------------|----------------|
| JAMES N. MALINA | 05/27/2015 |
| BILL PHUC TRAN | 05/21/2015 |
| AZNIZAM ABDULLAH SALEHUDIN | 06/01/2015 |

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: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 14582025 |

CORRESPONDENCE DATA

| Fax Number: | (949)672-6604 |
|--|---------------------------------|
| 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. | |
| Phone: | 9496729439 |
| Email: | Tanya.Josephs@wdc.com |
| Correspondent Name: | TANYA JOSEPHS |
| Address Line 1: | WESTERN DIGITAL CORPORATION |
| Address Line 2: | 3355 MICHELSON DRIVE, SUITE 100 |
| Address Line 4: | IRVINE, CALIFORNIA 92612 |
| | |

| ATTORNEY DOCKET NUMBER: | T7581 |
|-------------------------|-----------------|
| NAME OF SUBMITTER: | TANYA JOSEPHS |
| SIGNATURE: | /Tanya Josephs/ |
| DATE SIGNED: | 10/16/2015 |
| Total Attachments: 5 | |

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503523065 10/14/2015

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3569691

| SUBMISSION TYPE: | NEW ASSIGNMENT | |
|-----------------------|----------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT | |
| CONVEYING PARTY DATA | | |
| | Name | Execution Date |
| JAMES N. MALINA | | 05/27/2015 |
| | | 05/21/2015 |

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: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 14582025 |

CORRESPONDENCE DATA

Fax Number:(949)672-6604Correspondence 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.

| 5 | , , , |
|---------------------|---------------------------------|
| Phone: | 9496729439 |
| Email: | Tanya.Josephs@wdc.com |
| Correspondent Name: | TANYA JOSEPHS |
| Address Line 1: | WESTERN DIGITAL CORPORATION |
| Address Line 2: | 3355 MICHELSON DRIVE, SUITE 100 |
| Address Line 4: | IRVINE, CALIFORNIA 92612 |

| ATTORNEY DOCKET NUMBER: | Т7581 |
|---------------------------------------|-----------------|
| NAME OF SUBMITTER: | TANYA JOSEPHS |
| SIGNATURE: | /TANYA JOSEPHS/ |
| DATE SIGNED: | 10/14/2015 |
| Total Attachments: 4 | |
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Whereas, we, JAMES N. MALINA, a citizen of The United States of America, residing at IRVINE, California; BILL PHUC TRAN, a citizen of The United States of America, residing at CORONA, California; and AZNIZAM ABDULLAH SALEHUDIN, a citizen of Malaysia, residing at BANDAR BARU BANGI, Malaysia, have invented certain new and useful improvements in WRITE-THROUGH MEDIA CACHING (hereafter "Improvements") for which we have executed an application for a United States Patent filed December 23, 2014, Application No. 14/582,025 (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.

Page 1 of 4

Title of Invention: WRITE-THROUGH MEDIA CACHING

..... $\frac{5-27-2015}{\text{Date}}$ MES N. MALINA

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 County of Orange

On <u>05/27/2015</u>, before me, <u>Wendy Babella</u>, Notary Public, personally appeared JAMES N. MALINA 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 of Notary Public Signature:

) ss.

)



Page 2 of 4

Title of Invention: WRITE-THROUGH MEDIA CACHING

.....

BILL PHUC TRAN

5/21/2015

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

County of Orange

On <u>05/21/2015</u>, before me, <u>Wrady Bobella</u>, Notary Public, personally appeared **BILL PHUC TRAN** 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

) ss.

)



Page 3 of 4

PATENT Any. Docket No.: T7581

Title of Invention: WRITE-THROUGH MEDIA CACHING

AZNIZAM ABDULLAH SALEHUDIN

6/1/2015

Date

Witnessed by:

Kenneth Arinurg Type/Print 1" Witness Name

itness Signature

<u>6/1/2015</u> Date 6/1/2015

Justin Chim Type/Print 2nd Witness Name

2nd Witness Signature

Date

Page 4 of 4

RECORDED: 10/16/2015