

<b>PATENT ASSIGNMENT COVER SHEET</b>
--------------------------------------

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4631226

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
JUN XU	06/22/2017
WEI XI	06/22/2017
GUOXIAO GUO	06/22/2017
ERIC BJORNSON	06/22/2017
JIE YU	06/22/2017
LING CHIH WEI	06/25/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	WESTERN DIGITAL TECHNOLOGIES, INC.
<b>Street Address:</b>	5601 GREAT OAKS PARKWAY
<b>City:</b>	SAN JOSE
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	95119
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15635056
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<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>Email:</b>	mail@changhale.com
<b>Correspondent Name:</b>	CHANG & HALE LLP
<b>Address Line 1:</b>	4199 CAMPUS DRIVE
<b>Address Line 2:</b>	SUITE 550
<b>Address Line 4:</b>	IRVINE, CALIFORNIA 92612
<b>ATTORNEY DOCKET NUMBER:</b>	LP8419-ORG-US-2
<b>NAME OF SUBMITTER:</b>	ALAN T. HALE
<b>SIGNATURE:</b>	/Alan T. Hale/
<b>DATE SIGNED:</b>	10/06/2017
<b>Total Attachments: 10</b>	

source=SIGNED\_XU\_GUO\_Assignment\_LP8419-ORG-US-2#page1.tif  
source=SIGNED\_XU\_GUO\_Assignment\_LP8419-ORG-US-2#page2.tif  
source=SIGNED\_XI\_Assignment\_LP8419-ORG-US-2#page1.tif  
source=SIGNED\_XI\_Assignment\_LP8419-ORG-US-2#page2.tif  
source=SIGNED\_BJORNSON\_Assignment\_LP8419-ORG-US-2#page1.tif  
source=SIGNED\_BJORNSON\_Assignment\_LP8419-ORG-US-2#page2.tif  
source=SIGNED\_YU\_Assignment\_LP8419-ORG-US-2#page1.tif  
source=SIGNED\_YU\_Assignment\_LP8419-ORG-US-2#page2.tif  
source=SIGNED\_WEI\_Assignment\_LP8419-ORG-US-2#page1.tif  
source=SIGNED\_WEI\_Assignment\_LP8419-ORG-US-2#page2.tif

**ASSIGNMENT**

Whereas, we, **Jun Xu**, residing at **Singapore, Singapore**, **Wei Xi**, residing at **Mission Viejo, California**, **Guoxiao Guo**, residing at **Irvine, California**, **Eric Bjornson**, residing at **Sunnyvale, California**, **Jie Yu**, residing at **Irvine, California**, and **Ling Chih Wei**, residing at **Singapore, Singapore**, have invented certain new and useful improvements in **HYBRID DATA STORAGE SYSTEM WITH PRIVATE STORAGE CLOUD AND PUBLIC STORAGE CLOUD** (hereafter "Improvements") for which I have executed an application for United States Patents filed on even date HERewith, which is identified by (Atty. Docket No. LP8419-ORG-US-2) (hereafter "Application"), and for which I hereby authorize and request the attorneys of Chang & Hale LLP, to insert here in parentheses (U.S. Patent Application Number 15/635,056, filed on 06/27/2017 ) the application number and filing date of said application when known; and

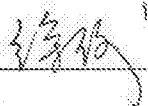
Whereas, **Western Digital Technologies, Inc.** (hereafter "Assignee"), a Delaware Corporation, desires to acquire the entire right, title, and interest in and to the Improvements and the Applications.

Now, therefore, for good and valuable consideration, the receipt of which is hereby acknowledged, I 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 provisionals, 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 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 Patent for the Improvements to the Assignee, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

I hereby covenant and agree that I 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.

This agreement shall be deemed to have been executed and delivered within the State of California, and the rights and obligations of the parties hereunder shall be construed and enforced in accordance with, and governed by, the laws of the State of California without regard to any principles of conflict of laws that would result in the application of the laws of any other jurisdiction. In the event a judicial proceeding is necessary, the exclusive forums for resolving disputes arising under or relating to this agreement shall be the state and federal courts located within the County of Orange, California, and all related appellate courts and the parties hereby consent to the exclusive jurisdiction of such courts, and hereby waive any and all objections based on venue or forum non conveniens.

The parties agree that this agreement may be electronically signed. The parties agree that any electronic signatures appearing on this agreement are the same as handwritten signatures for the purposes of validity, enforceability and admissibility.

  
\_\_\_\_\_


Jun Xu

Date: June 22 2017

\_\_\_\_\_

Date: \_\_\_\_\_

Wei Xi

  
\_\_\_\_\_

June 22, 2017

Date: \_\_\_\_\_

Guoxiao Guo

\_\_\_\_\_

Date: \_\_\_\_\_

Eric Bjornson

\_\_\_\_\_

Date: \_\_\_\_\_

Jie Yu

\_\_\_\_\_

Date: \_\_\_\_\_

Ling Chih Wei

**ASSIGNMENT**

Whereas, we, **Jun Xu**, residing at **Singapore, Singapore**, **Wei Xi**, residing at **Mission Viejo, California**, **Guoxiao Guo**, residing at **Irvine, California**, **Eric Bjornson**, residing at **Sunnyvale, California**, **Jie Yu**, residing at **Irvine, California**, and **Ling Chih Wei**, residing at **Singapore, Singapore**, have invented certain new and useful improvements in **HYBRID DATA STORAGE SYSTEM WITH PRIVATE STORAGE CLOUD AND PUBLIC STORAGE CLOUD** (hereafter "Improvements") for which I have executed an application for United States Patents filed on even date HEREWITH, which is identified by (Atty. Docket No. LP8419-ORG-US-2) (hereafter "Application"), and for which I hereby authorize and request the attorneys of Chang & Hale LLP, to insert here in parentheses (U.S. Patent Application Number 15/635,056, filed on 06/27/2017 ) the application number and filing date of said application when known; 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, for good and valuable consideration, the receipt of which is hereby acknowledged, I 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 provisionals, 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 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 Patent for the Improvements to the Assignee, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

I hereby covenant and agree that I 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.

This agreement shall be deemed to have been executed and delivered within the State of California, and the rights and obligations of the parties hereunder shall be construed and enforced in accordance with, and governed by, the laws of the State of California without regard to any principles of conflict of laws that would result in the application of the laws of any other jurisdiction. In the event a judicial proceeding is necessary, the exclusive forums for resolving disputes arising under or relating to this agreement shall be the state and federal courts located within the County of Orange, California, and all related appellate courts and the parties hereby consent to the exclusive jurisdiction of such courts, and hereby waive any and all objections based on venue or forum non conveniens.

The parties agree that this agreement may be electronically signed. The parties agree that any electronic signatures appearing on this agreement are the same as handwritten signatures for the purposes of validity, enforceability and admissibility.

\_\_\_\_\_  
Date: \_\_\_\_\_  
Jun Xu



Date: 6/22/2017

\_\_\_\_\_  
Date: \_\_\_\_\_  
Wei Xi

\_\_\_\_\_  
Date: \_\_\_\_\_  
Guoxiao Guo

\_\_\_\_\_  
Date: \_\_\_\_\_  
Eric Bjornson

\_\_\_\_\_  
Date: \_\_\_\_\_  
Jie Yu

\_\_\_\_\_  
Date: \_\_\_\_\_  
Ling Chih Wei

**ASSIGNMENT**

Whereas, we, **Jun Xu**, residing at **Singapore, Singapore**, **Wei Xi**, residing at **Mission Viejo, California**, **Guoxiao Guo**, residing at **Irvine, California**, **Eric Bjornson**, residing at **Sunnyvale, California**, **Jie Yu**, residing at **Irvine, California**, and **Ling Chih Wei**, residing at **Singapore, Singapore**, have invented certain new and useful improvements in **HYBRID DATA STORAGE SYSTEM WITH PRIVATE STORAGE CLOUD AND PUBLIC STORAGE CLOUD** (hereafter "Improvements") for which I have executed an application for United States Patents filed on even date HERewith, which is identified by (Atty. Docket No. LP8419-ORG-US-2) (hereafter "Application"), and for which I hereby authorize and request the attorneys of Chang & Hale LLP, to insert here in parentheses (U.S. Patent Application Number 15/635,056, filed on 06/27/2017 ) the application number and filing date of said application when known; 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, for good and valuable consideration, the receipt of which is hereby acknowledged, I 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 provisionals, 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 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 Patent for the Improvements to the Assignee, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

I hereby covenant and agree that I 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.

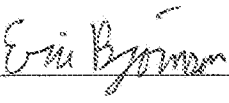
This agreement shall be deemed to have been executed and delivered within the State of California, and the rights and obligations of the parties hereunder shall be construed and enforced in accordance with, and governed by, the laws of the State of California without regard to any principles of conflict of laws that would result in the application of the laws of any other jurisdiction. In the event a judicial proceeding is necessary, the exclusive forums for resolving disputes arising under or relating to this agreement shall be the state and federal courts located within the County of Orange, California, and all related appellate courts and the parties hereby consent to the exclusive jurisdiction of such courts, and hereby waive any and all objections based on venue or forum non conveniens.

The parties agree that this agreement may be electronically signed. The parties agree that any electronic signatures appearing on this agreement are the same as handwritten signatures for the purposes of validity, enforceability and admissibility.

\_\_\_\_\_  
Date: \_\_\_\_\_  
Jun Xu

\_\_\_\_\_  
Date: \_\_\_\_\_  
Wei Xi

\_\_\_\_\_  
Date: \_\_\_\_\_  
Guoxiao Guo

  
\_\_\_\_\_  
Date: June 22, 2017  
Eric Bjornson

\_\_\_\_\_  
Date: \_\_\_\_\_  
Jie Yu

\_\_\_\_\_  
Date: \_\_\_\_\_  
Ling Chih Wei



### ASSIGNMENT

Whereas, we, **Jun Xu**, residing at **Singapore, Singapore**, **Wei Xi**, residing at **Mission Viejo, California**, **Guoxiao Guo**, residing at **Irvine, California**, **Eric Bjornson**, residing at **Sunnyvale, California**, **Jie Yu**, residing at **Irvine, California**, and **Ling Chih Wei**, residing at **Singapore, Singapore**, have invented certain new and useful improvements in **HYBRID DATA STORAGE SYSTEM WITH PRIVATE STORAGE CLOUD AND PUBLIC STORAGE CLOUD** (hereafter "Improvements") for which I have executed an application for United States Patents filed on even date HERewith, which is identified by (Atty. Docket No. LP8419-ORG-US-2) (hereafter "Application"), and for which I hereby authorize and request the attorneys of Chang & Hale LLP, to insert here in parentheses (U.S. Patent Application Number 15/635,056, filed on 06/27/2017 ) the application number and filing date of said application when known; 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, for good and valuable consideration, the receipt of which is hereby acknowledged, I 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 provisionals, 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 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 Patent for the Improvements to the Assignee, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

I hereby covenant and agree that I 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.

This agreement shall be deemed to have been executed and delivered within the State of California, and the rights and obligations of the parties hereunder shall be construed and enforced in accordance with, and governed by, the laws of the State of California without regard to any principles of conflict of laws that would result in the application of the laws of any other jurisdiction. In the event a judicial proceeding is necessary, the exclusive forums for resolving disputes arising under or relating to this agreement shall be the state and federal courts located within the County of Orange, California, and all related appellate courts and the parties hereby consent to the exclusive jurisdiction of such courts, and hereby waive any and all objections based on venue or forum non conveniens.

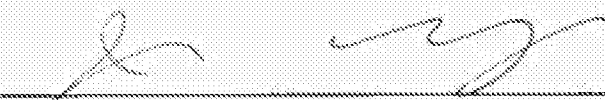
The parties agree that this agreement may be electronically signed. The parties agree that any electronic signatures appearing on this agreement are the same as handwritten signatures for the purposes of validity, enforceability and admissibility.

\_\_\_\_\_  
Jun Xu  
Date: \_\_\_\_\_

\_\_\_\_\_  
Wei Xi  
Date: \_\_\_\_\_

\_\_\_\_\_  
Guoxiao Guo  
Date: \_\_\_\_\_

\_\_\_\_\_  
Eric Bjomson  
Date: \_\_\_\_\_

  
\_\_\_\_\_  
Jie Yu  
Date: 6/22/17

\_\_\_\_\_  
Ling Chih Wei  
Date: \_\_\_\_\_

**ASSIGNMENT**

Whereas, we, **Jun Xu**, residing at **Singapore, Singapore**, **Wei Xi**, residing at **Mission Viejo, California**, **Guoxiao Guo**, residing at **Irvine, California**, **Eric Bjornson**, residing at **Sunnyvale, California**, **Jie Yu**, residing at **Irvine, California**, and **Ling Chih Wei**, residing at **Singapore, Singapore**, have invented certain new and useful improvements in **HYBRID DATA STORAGE SYSTEM WITH PRIVATE STORAGE CLOUD AND PUBLIC STORAGE CLOUD** (hereafter "Improvements") for which I have executed an application for United States Patents filed on even date HERewith, which is identified by (Atty. Docket No. LP8419-ORG-US-2) (hereafter "Application"), and for which I hereby authorize and request the attorneys of Chang & Hale LLP, to insert here in parentheses (U.S. Patent Application Number 15/635,056, filed on 06/27/2017 ) the application number and filing date of said application when known; 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, for good and valuable consideration, the receipt of which is hereby acknowledged, I 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 provisionals, 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 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 Patent for the Improvements to the Assignee, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

I hereby covenant and agree that I 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.

This agreement shall be deemed to have been executed and delivered within the State of California, and the rights and obligations of the parties hereunder shall be construed and enforced in accordance with, and governed by, the laws of the State of California without regard to any principles of conflict of laws that would result in the application of the laws of any other jurisdiction. In the event a judicial proceeding is necessary, the exclusive forums for resolving disputes arising under or relating to this agreement shall be the state and federal courts located within the County of Orange, California, and all related appellate courts and the parties hereby consent to the exclusive jurisdiction of such courts, and hereby waive any and all objections based on venue or forum non conveniens.

The parties agree that this agreement may be electronically signed. The parties agree that any electronic signatures appearing on this agreement are the same as handwritten signatures for the purposes of validity, enforceability and admissibility.

\_\_\_\_\_  
Date: \_\_\_\_\_  
Jun Xu

\_\_\_\_\_  
Date: \_\_\_\_\_  
Wei Xi

\_\_\_\_\_  
Date: \_\_\_\_\_  
Guoxiao Guo

\_\_\_\_\_  
Date: \_\_\_\_\_  
Eric Bjornson

\_\_\_\_\_  
Date: \_\_\_\_\_  
Jie Yu

  
Date: 25/06/2017

Ling Chih Wei