

## PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
MICHAEL S. ALLISON	07/17/2014
STEPHEN J. SILVA	06/23/2014
JOHNNY A. LAM	07/17/2014
MATTHEW CALL	06/24/2014
<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: 2</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14020686
<b>Application Number:</b>	61857503
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(949)672-6604
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<b>Phone:</b>	949-672-7820
<b>Email:</b>	tiffany.chang@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>	T6512
<b>NAME OF SUBMITTER:</b>	TIFFANY CHANG
<b>SIGNATURE:</b>	/Tiffany Chang/
<b>DATE SIGNED:</b>	07/18/2014
<b>Total Attachments: 6</b>	
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**ASSIGNMENT**

Whereas, we, **MICHAEL S. ALLISON**, a citizen of **the United States of America**, residing at **Fort Collins, Colorado**; **STEPHEN J. SILVA**, a citizen of **the United States of America**, residing at **Fort Collins, Colorado**; **JOHNNY A. LAM**, a citizen of **the United States of America**, residing at **Firestone, Colorado**; and **MATTHEW CALL**, a citizen of **the United States of America**, residing at **Longmont, Colorado**, have invented certain new and useful improvements in **POWER FAIL PROTECTION AND RECOVERY USING LOW POWER STATES IN A DATA STORAGE DEVICE/SYSTEM** (hereafter "Improvements") for which we have executed an application for a United States Patent filed **September 6, 2013**, Application No. **14/020,686** and a provisional application for a United States Patent filed **July 23, 2013**, Application No. **61/857,503** (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.

ASSIGNMENT

PATENT  
Atty. Docket No.: T6512

Title of Invention: **POWER FAIL PROTECTION AND RECOVERY USING LOW POWER STATES IN A DATA STORAGE DEVICE/SYSTEM**

  
MICHAEL S. ALLISON


7/17/2014  
Date

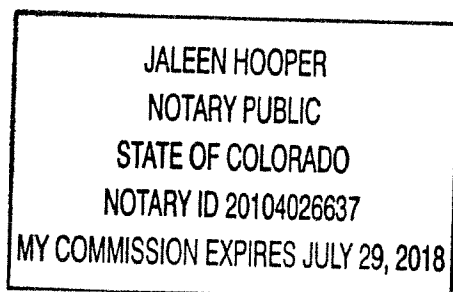
State of Colorado )  
County of Boulder ) ss.

On July 17, 2014, before me, Jaleen Hooper, Notary Public, personally appeared **MICHAEL S. ALLISON** 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 Colorado that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

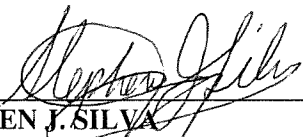
Signature:   
Signature of Notary Public



ASSIGNMENT

PATENT  
Atty. Docket No.: T6512

Title of Invention: **POWER FAIL PROTECTION AND RECOVERY USING LOW POWER STATES IN A DATA STORAGE DEVICE/SYSTEM**

  
\_\_\_\_\_  
STEPHEN J. SILVA

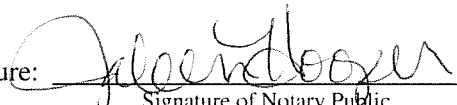
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Date 6/23/14

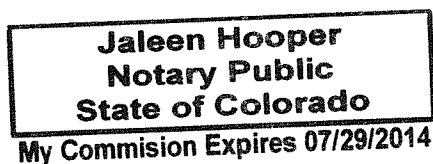
State of Colorado                    )  
County of Boulder                ) ss.

On June 23, 2014, before me, Jaleen Hooper, Notary Public, personally appeared **STEPHEN J. SILVA** 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 Colorado that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature:   
\_\_\_\_\_  
Signature of Notary Public



ASSIGNMENT

PATENT  
Atty. Docket No.: T6512

Title of Invention: **POWER FAIL PROTECTION AND RECOVERY USING LOW POWER STATES IN A DATA STORAGE DEVICE/SYSTEM**

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*Johnny A. Lam*  
JOHNNY A. LAM

7/17/14  
Date

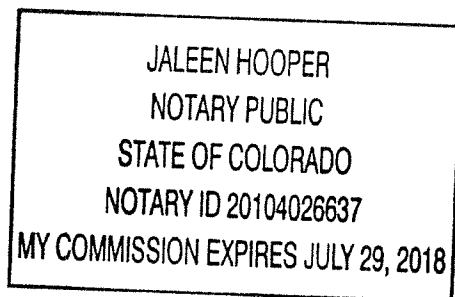
State of Colorado )  
County of Boulder ) ss.  
)

On July 17, 2014, before me, Jaleen Hooper, Notary Public, personally appeared **JOHNNY A. LAM** 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 Colorado that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature: *Jaleen Hooper*  
Signature of Notary Public



ASSIGNMENT

PATENT  
Atty. Docket No.: T6512

Title of Invention: **POWER FAIL PROTECTION AND RECOVERY USING LOW POWER STATES IN A DATA STORAGE DEVICE/SYSTEM**

Matthew Call  
MATTHEW CALL

24 June 2014  
Date

State of Colorado )  
County of Boulder ) ss.

On 6/24/14, before me, Jaleen Hooper, Notary Public, personally appeared **MATTHEW CALL** 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 Colorado that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature: Jaleen Hooper  
Signature of Notary Public

**Jaleen Hooper**  
**Notary Public**  
**State of Colorado**  
My Commission Expires 07/29/2014

**ACCEPTANCE OF ASSIGNMENT**  
(Patent Application)

Assignee Western Digital Technologies, Inc. ("Assignee") hereby acknowledges that MICHAEL S. ALLISON, STEPHEN J. SILVA, JOHNNY A. LAM, and MATTHEW CALL have executed the above assignment concerning a utility (provisional or non-provisional) or design patent application entitled

"POWER FAIL PROTECTION AND RECOVERY USING LOW POWER STATES IN A DATA STORAGE DEVICE/SYSTEM"


filed with the U.S. Patent & Trademark Office on September 6, 2013 and assigned serial no. 14/020,686; and

"SSD POWER FAIL PROTECTION AND RECOVERY USING LOW POWER STATES"

filed with the U.S. Patent & Trademark Office on July 23, 2013 and assigned serial no. 61/857,503.

Assignee further acknowledges receipt of the entire right, title and interest in and to the patents and/or patent application(s) listed herein ("Application(s)"), 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 listed Application(s) in any country or countries foreign to the United States and all extensions, renewals and reissues thereof.

Signature:

  
David H. Chan, Patent Counsel

Assignee Western Digital Technologies, Inc.

Date: July 18 2014