PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4119308

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
THOMAS PATRICK ANDERSON	10/14/2016
JEERUN CHAN	10/20/2016
CAESAR CHEUK-CHOW CHEUNG	10/25/2016
DANIEL LEE ELLIS	10/27/2016
MICHAEL HARVILL	10/25/2016

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15337715

CORRESPONDENCE DATA

Fax Number:

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: 651-735-1100

Email: pairdocketing@ssiplaw.com

Correspondent Name: SHUMAKER & SIEFFERT, P.A/HGST, INC.

Address Line 1: 1625 RADIO DRIVE, SUITE 300
Address Line 4: WOODBURY, MINNESOTA 55125

ATTORNEY DOCKET NUMBER:	1203-089US01/H20161105US1
NAME OF SUBMITTER:	KARI GREEN
SIGNATURE:	/Kari Green/
DATE SIGNED:	10/28/2016

Total Attachments: 5

PATENT REEL: 040161 FRAME: 0786 source=H20161105US1_Assignment#page1.tif
source=H20161105US1_Assignment#page2.tif
source=H20161105US1_Assignment#page3.tif
source=H20161105US1_Assignment#page4.tif
source=H20161105US1_Assignment#page5.tif

PATENT REEL: 040161 FRAME: 0787

Whereas, we the undersigned inventors have invented certain improvements as set forth in the patent application entitled:

EMBEDDING ANALYZER FUNCTIONALITY IN STORAGE DEVICES

Whereas, Western Digital Technologies, Inc., having a place of business at, 3355 Michelson Dr., Ste. 100, Irvine, CA 92612 (hereinafter referred to as "Western Digital Technologies, Inc."), desires to acquire the entire right, title and interest in the said application and invention, and to any United States and foreign patents to be obtained therefore;

Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, we, the above named, hereby sell, assign, and transfer to Western Digital Technologies, Inc., its successors and assigns, the entire right, title and interest in the said application and invention therein disclosed for the United States and foreign countries, and all rights of priority resulting from the filing of said United States application, and we request the Commissioner of Patents to issue any Letters Patent granted upon the inventions set forth in said application to Western Digital Technologies, Inc., its successors and assigns; and we hereby agree that Western Digital Technologies, Inc. may apply for foreign Letters Patent on said invention and we will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by Western Digital Technologies, Inc.

Signed on the dates indicated beside our signatures.

1)	Signature: Thomas Patrick Anderson	Date: 10/14/2014
2)	Signature: Typed Name: Jeerun Chan	Date:
3)	Signature: Typed Name: Caesar Cheuk-Chow Cheung	Date:
4)	Signature: Typed Name: Daniel Lee Ellis	Date:
5)	Signature: Typed Name: Michael Harvill	Date:

Docket No.: H20161105US1 Page 1 of 1

Whereas, we the undersigned inventors have invented certain improvements as set forth in the patent application entitled:

EMBEDDING ANALYZER FUNCTIONALITY IN STORAGE DEVICES

Whereas, **Western Digital Technologies**, **Inc.**, having a place of business at, 3355 Michelson Dr., Ste. 100, Irvine, CA 92612 (hereinafter referred to as "Western Digital Technologies, Inc."), desires to acquire the entire right, title and interest in the said application and invention, and to any United States and foreign patents to be obtained therefore;

Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, we, the above named, hereby sell, assign, and transfer to Western Digital Technologies, Inc., its successors and assigns, the entire right, title and interest in the said application and invention therein disclosed for the United States and foreign countries, and all rights of priority resulting from the filing of said United States application, and we request the Commissioner of Patents to issue any Letters Patent granted upon the inventions set forth in said application to Western Digital Technologies, Inc., its successors and assigns; and we hereby agree that Western Digital Technologies, Inc. may apply for foreign Letters Patent on said invention and we will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by Western Digital Technologies, Inc.

Signed on the dates indicated beside our signatures.

1)	Signature:	Date:
	Typed Name: Thomas Patrick Anderson	1/2/11
2).	Signature: Jelu Gu Typed Name: Jeerun Chan	Date: 16/28/16
	Typed Namé: Jeerun Chan	
3)	Signature:	Date:
	Typed Name: Caesar Cheuk-Chow Cheung	ADDRESS OF THE PROPERTY OF THE
4)	Signature:	Date:
	Typed Name: Daniel Lee Ellis	
5)	Signature:	Date:
ŕ	Typed Name: Michael Harvill	

Docket No.: H20161105US1 Page 1 of 1

Whereas, we the undersigned inventors have invented certain improvements as set forth in the patent application entitled:

EMBEDDING ANALYZER FUNCTIONALITY IN STORAGE DEVICES

Whereas, Western Digital Technologies, Inc., having a place of business at, 3355 Michelson Dr., Ste. 100, Irvine, CA 92612 (hereinafter referred to as "Western Digital Technologies, Inc."), desires to acquire the entire right, title and interest in the said application and invention, and to any Linited States and foreign patents to be obtained therefore:

Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, we, the above named, hereby sell, assign, and transfer to Western Digital Technologies, Inc., its successors and assigns, the entire right, title and interest in the said application and invention therein disclosed for the United States and foreign countries, and all rights of priority resulting from the filing of said United States application, and we request the Commissioner of Patents to issue any Letters Patent granted upon the inventions set forth in said application to Western Digital Technologies, Inc., its successors and assigns; and we hereby agree that Western Digital Technologies, Inc. may apply for foreign Letters Patent on said invention and we will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by Western Digital Technologies, Inc.

Signed on the dates indicated beside our signatures.

1)	Signature:	Date:
A. 46	Typed Name: Thomas Patrick Anderson	
2)	Signature:	Date:
	Typed Name: Jeerun Chan	
3)	Signature: Signature: Typed Name: Caesar Cheuk-Chow Cheung	Date:
¥	Typed Name: Caesar Cheuk-Chow Cheung	
4)	Signature:	Date:
	Typed Name: Daniel Lee Ellis	
5)	Signature	Date:
	Typed Name: Michael Harvill	

Docket No.: H20161105UST Page 1 of 1

Whereas, we the undersigned inventors have invented certain improvements as set forth in the patent application entitled:

EMBEDDING ANALYZER FUNCTIONALITY IN STORAGE DEVICES

Whereas, **Western Digital Technologies**, **Inc.**, having a place of business at, 3355 Michelson Dr., Ste. 100, Irvine, CA 92612 (hereinafter referred to as "Western Digital Technologies, Inc."), desires to acquire the entire right, title and interest in the said application and invention, and to any United States and foreign patents to be obtained therefore;

Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, we, the above named, hereby sell, assign, and transfer to Western Digital Technologies, Inc., its successors and assigns, the entire right, title and interest in the said application and invention therein disclosed for the United States and foreign countries, and all rights of priority resulting from the filing of said United States application, and we request the Commissioner of Patents to issue any Letters Patent granted upon the inventions set forth in said application to Western Digital Technologies, Inc., its successors and assigns; and we hereby agree that Western Digital Technologies, Inc. may apply for foreign Letters Patent on said invention and we will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by Western Digital Technologies, Inc.

Signature: 1) Date: Typed Name: Thomas Patrick Anderson 2) Signature: _____ Date: Typed Name: Jeerun Chan 3) Signature: Date: Typed Name: Caesar Cheuk-Chow Cheung Signature: Daniel Ellis 4) Date: 10-27-2016 Typed Name: Daniel Lee Ellis Signature: 5) Date: Typed Name: Michael Harvill

Signed on the dates indicated beside our signatures.

Docket No.: H20161105US1 Page 1 of 1

PATENT REEL: 040161 FRAME: 0791

Whereas, we the undersigned inventors have invented certain improvements as set forth in the patent application entitled:

EMBEDDING ANALYZER FUNCTIONALITY IN STORAGE DEVICES

Whereas, Western Digital Technologies, Inc., having a place of business at, 3355 Michelson Dr., Ste. 100, Irvine, CA 92612 (hereinafter referred to as "Western Digital Technologies, Inc."), desires to acquire the entire right, title and interest in the said application and invention, and to any United States and foreign patents to be obtained therefore;

Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, we, the above named, hereby sell, assign, and transfer to Western Digital Technologies, Inc., its successors and assigns, the entire right, title and interest in the said application and invention therein disclosed for the United States and foreign countries, and all rights of priority resulting from the filing of said United States application, and we request the Commissioner of Patents to issue any Letters Patent granted upon the inventions set forth in said application to Western Digital Technologies, Inc., its successors and assigns; and we hereby agree that Western Digital Technologies, Inc. may apply for foreign Letters Patent on said invention and we will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by Western Digital Technologies, Inc.

Signed on the dates indicated beside our signatures.

1)	Signature: Typed Name: Thomas Patrick Anderson	Date:
2)	Signature: Typed Name: Jeerun Chan	Date:
3)	Signature: Typed Name: Caesar Cheuk-Chow Cheung	Date:
4)	Signature: Typed Name: Daniel Lee Ellis	Date:
5)	Signature: Typed Name: Michael Harvill	Date: 10-75-16

Docket No.: H20161105US1

RECORDED: 10/28/2016 REEL: 040161 FRAME: 0792

PATENT⁽¹⁾