505307442 01/31/2019

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JAMA I. BARREH	01/25/2019
ROBERT T. GOLLA	01/25/2019
THOMAS M. WICKI	01/25/2019
MATTHEW B. SMITTLE	01/26/2019

RECEIVING PARTY DATA

Name:	WESTERN DIGITAL TECHNOLOGIES, INC.	
Street Address:	t Address: 5601 GREAT OAKS PARKWAY	
City:	SAN JOSE	
State/Country:	CALIFORNIA	
Postal Code:	95119	

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	16264118	

CORRESPONDENCE DATA

Fax Number: (512)853-8801

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: 5128538800

Email: dbeasley@intprop.com

MHKKG (WESTERN DIGITAL) **Correspondent Name:**

Address Line 1: P.O. BOX 398

Address Line 4: AUSTIN, TEXAS 78767-0398

ATTORNEY DOCKET NUMBER:	7272-01501
NAME OF SUBMITTER:	MICHAEL B. DAVIS
SIGNATURE:	/Michael B. Davis/
DATE SIGNED:	01/31/2019

Total Attachments: 8

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ASSIGNMENT

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, the undersigned does hereby:

SELL, ASSIGN AND TRANSFER to Western Digital Technologies. Inc. (the "Assignee"), a corporation organized and existing under and by virtue of the laws of the State of California, and having its principal place of business at 5601 Great Oaks Parkway San Jose, CA 95119, the entire right, title and interest for the United States and all foreign countries, in and to any and all improvements which are disclosed in the application for United States Letters Patent, which has been executed by the undersigned concurrently herewith, and is entitled CACHE DIAGNOSTIC TECHNIQUES, such application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent which have been or shall be filed in the United States and all foreign countries on any of such improvements; all original and reissued patents which have been or shall be issued in the United States and all foreign countries on such improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and claim priority based on such application in the United States;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such improvements to the Assignee;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned;

COVENANT that, when requested and at the expense of the Assignee, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such improvements; execute all rightful oaths, declarations, assignments, powers of attorney and other papers; communicate to the Assignee all facts known to the undersigned relating to such improvements and the history thereof; and generally do everything possible which the Assignee shall consider desirable for securing, maintaining and enforcing proper patent protection for such improvements and for vesting title to such improvements in the Assignee;

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COVENANT AND AGREE that the above is and will be binding on the heirs, assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assigns.

(Signature) (Signature) (Signature)	Jama I. Barreh	Date: <u>01/25/2019</u>
(Signature) _ Name:	Robert T. Golla	Date:
(Signature) _ Name:	Thomas M. Wicki	Date:
(Signature) _ Name:	Matthew A. Smittle	Date:

Customer No. 154206
Dean M. Munyon
Meyertons, Hood, Kivlin, Kowert & Goetzel, P.C.
P.O. Box 398
Austin, TX 78767-0398

<u>ASSIGNMENT</u>

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(Signature)		Date:
Name:	Jama I. Barreh	
(Signature) Name:	Robert T. Golla	Date: 1 25 2019
	Thomas M. Wicki	Date:
(Signature) Name:	Matthew B. Smittle	Date:

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(Signature)		Date:	
	Jama I. Barreh		
(Signature)_		Date:	
	Robert T. Golla		
(Signature) _ Name:	Thomas M. Wicki	Date:	1/25/19
(Signature) _ Name:	Matthew R. Smittle	Date:	

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representatives and successors of the undersigned and extend to the successors, assigns are nominees of the Assigns.

(Signature)		Date:	
Name:	Jama I. Barreh		
(Signature)_		Date	
Name:	Robert T. Golia		
Signature) _		Date:	
Name:	Thomas M. Wicki		
(Signature)_	Matthew B. South	Darc	1/26/19
Name:	/ Matthew R. Smith	*****	

⊃ean M. Munyon ⊃leyertons, Hood, Kivlin, Kowert & Goetzel, P.C. P.O. Box 398 Austin, TX 78767-0398

> PATENT REEL: 048212 FRAME: 0584

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RECORDED: 01/31/2019