

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4642950

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
DANIEL HELMICK	10/10/2017
AMIR GHOLAMIPOUR	10/16/2017
CHANDAN MISHRA	10/11/2017
RECEIVING PARTY DATA	
Name:	WESTERN DIGITAL TECHNOLOGIES, INC.
Street Address:	5601 GREAT OAKS PARKWAY
City:	SAN JOSE
State/Country:	CALIFORNIA
Postal Code:	95119
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15730511
CORRESPONDENCE DATA	
Fax Number:	(415)489-4150
<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>	
Phone:	415-489-4100
Email:	egomez@vierramagen.com
Correspondent Name:	PETER GALLAGHER
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Address Line 2:	575 MARKET STREET, SUITE 3750
Address Line 4:	SAN FRANCISCO, CALIFORNIA 94105
ATTORNEY DOCKET NUMBER:	SAND-02151US0
NAME OF SUBMITTER:	PETER GALLAGHER
SIGNATURE:	/Peter Gallagher/
DATE SIGNED:	10/16/2017
Total Attachments: 4	
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JOINT TO CORPORATE ASSIGNMENT

WHEREAS, the undersigned Inventors:

(1) Daniel Helmick,
a resident of Broomfield, Colorado; and

(2) Amir Gholamipour,
a resident of Irvine, California; and

(3) Chandan Mishra,
a resident of Irvine, California

have invented certain new and useful improvements in:

NON-VOLATILE MEMORY WITH REGIONAL AND INTER-REGION WEAR LEVELING

WHEREAS Western Digital Technologies, Inc. (hereinafter termed "Assignee"), a corporation of the State of Delaware, having a place of business at 5601 Great Oaks Parkway, San Jose, CA 95119, wishes to acquire the entire right, title and interest in and to said application and the invention disclosed therein, and in and to all embodiments of the invention, heretofore conceived, made or discovered jointly or severally by said Inventors (all collectively hereinafter termed "said invention"), and in and to any and all patents, certificates of invention and other forms of protection thereon (hereinafter termed "patents") applied for or granted in the United States and/or other countries.

NOW THEREFORE, for good and valuable consideration acknowledged by each of said Inventors to have been received in full from said Assignee:

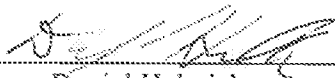
1. Said Inventors do hereby sell, assign, transfer and convey to said Assignee, the entire right, title and interest (a) in and to said application and said invention; (b) in and to all rights to apply in any or all countries of the world for patents, certificates of inventions or other governmental grants on said invention, including the right to apply for patents pursuant to the International Convention for the Protection of Industrial Property or pursuant to any other convention, treaty, agreement or understanding; (c) in and to any and all applications filed and any and all patents, certificates of inventions or other governmental grants granted on said invention in the United States or any other country, including each and every application filed and each and every patent granted on any application which is a division, substitution, or continuation of any of said applications; (d) in and to each and every reissue or extension of any of said patents; and (e) in and to each and every patent claim resulting from a reexamination certificate for any and all of said patents.

2. Said Inventors hereby jointly and severally covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest herein

conveyed in the United States and other countries. Such cooperation by said Inventors shall include prompt production of pertinent facts and documents, giving of testimony, executing of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for complying with any duty of disclosure; (c) for prosecuting any of said applications; (d) for filing and prosecuting substitute, divisional, continuing or additional applications covering said invention; (e) for filing and prosecuting applications for reissue of any of said patents; (f) for interference or other priority proceedings involving said invention; and (g) for legal proceedings involving said invention and any applications therefor and any patents granted thereon, including without limitation opposition proceedings, cancellation proceedings, priority contests, public use proceedings, reexamination proceedings, compulsory licensing proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Inventors in providing such cooperation shall be paid for by said Assignee.

3. The terms and covenants of this Assignment shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Inventors, their respective heirs, legal representatives and assigns.

4. Said Inventors hereby jointly and severally warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

Date: 10/10/17 (1) 
Daniel Helmick

Date: _____ (2) _____
Amir Gholamipour

Date: _____ (3) _____
Chandan Mishra

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Date: _____ (1) _____
Daniel Helmick

Date: 10/16/2017 (2) Amir Gholamipour
Amir Gholamipour

Date: _____ (3) _____
Chandan Mishra

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Date: _____

(1) _____
Daniel Helmick

Date: _____

(2) _____
Amir Gholamipour

Date: 10/11/17

(3) Chandan Mishra
Chandan Mishra