# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
TOSHIKI HIRANO	06/22/2018
GOKUL KUMAR	06/25/2018
AKIO NISHIDA	06/26/2018
YAN LI	06/27/2018
MICHAEL MOSTOVOY	06/26/2018

### **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:	16021529

### **CORRESPONDENCE DATA**

Fax Number: (415)489-4150

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.

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**Correspondent Name:** VIERRA MAGEN MARCUS LLP Address Line 1: 101 MISSION STREET, SUITE 400

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ATTORNEY DOCKET NUMBER:	SAND-02246US1
NAME OF SUBMITTER:	BRIAN I. MARCUS
SIGNATURE:	/BRIAN I. MARCUS/
DATE SIGNED:	06/28/2018

**Total Attachments: 6** 

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**PATENT** REEL: 046227 FRAME: 0982

EPAS ID: PAT5028773

504982027



PATENT REEL: 046227 FRAME: 0983

## **JOINT TO CORPORATE ASSIGNMENT**

WHEREAS, the undersigned Inventors:

Toshiki Hirano	
San Jose, California	
Gokul Kumar	
San Jose, California	
Akio Nishida	
Nagoya, Japan	
Yan Li	
Milpitas, California	
Michael Mostovoy	
San Ramon, California	
	San Jose, California  Gokul Kumar San Jose, California  Akio Nishida Nagoya, Japan  Yan Li Milpitas, California  Michael Mostovoy

have invented certain new and useful improvements in:

### BIFURCATED MEMORY DIE MODULE SEMICONDUCTOR DEVICE

and have executed a declaration for an application for a United States Patent disclosing and identifying the invention, the declaration being executed on 6/22/2018; 6/25/2018; 6/26/2018; 6/27/2018

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

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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:	6/22/2018	(1)	Tork A Human	
		. ,	Toshiki Hirano	Ī

Date:	6/25/2018	(2)	John R	
			Gokul Kumar	

Date: 26-June -2018 (3) Ario Visheda
Akio Nishida

Date:	6/27/2018	(4) Sala
		√Yan Li

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Date:	06/26/2018	(5)	No.	
	·	, , <u>, , , , , , , , , , , , , , , , , </u>	Michael Mostovov	

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