# 504270963 03/14/2017

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4317645

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
HIROYUKI OGAWA	03/13/2017
YASUO KASAGI	03/13/2017
SATOSHI SHIMIZU	03/13/2017
KAZUYO MATSUMOTO	03/13/2017
YOHEI MASAMORI	03/13/2017
JIXIN YU	03/10/2017
TONG ZHANG	03/10/2017
JAMES KAI	03/10/2017

## **RECEIVING PARTY DATA**

Name:	SANDISK TECHNOLOGIES LLC	
Street Address:	6900 NORTH DALLAS PARKWAY	
Internal Address:	SUITE 325	
City:	PLANO	
State/Country:	TEXAS	
Postal Code:	75024	

#### **PROPERTY NUMBERS Total: 3**

Property Type	Number
Application Number:	15458269
Application Number:	62416859
Application Number:	62417575

## **CORRESPONDENCE DATA**

**Fax Number:** (703)391-2901

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:** 703 391 2900

**Email:** ptonotices@marburylaw.com

Correspondent Name: THE MARBURY LAW GROUP, PLLC Address Line 1: 11800 SUNRISE VALLEY DRIVE

Address Line 2: 15TH FLOOR

Address Line 4: RESTON, VIRGINIA 20191

504270963 PATENT REEL: 041570 FRAME: 0208

ATTORNEY DOCKET NUMBER: 3590-624B		
NAME OF SUBMITTER:	PATRICK MCCONVILLE	
SIGNATURE:	/pmcconville/	
DATE SIGNED:	03/14/2017	
Total Attachments: 4 source=3590_624B_Assignment_filed#page1.tif		

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> PATENT REEL: 041570 FRAME: 0209

Customer No.: 97299

## **ASSIGNMENT AND AGREEMENT**

WHEREAS, Hiroyuki OGAWA, Yasuo KASAGI, Satoshi SHIMIZU, Kazuyo MATSUMOTO, Yohei MASAMORI, Jixin YU, Tong ZHANG, and James KAI, (hereinafter referred to singly and collectively as "ASSIGNOR") has invented a certain invention entitled BULB-SHAPED MEMORY STACK STRUCTURES FOR DIRECT SOURCE CONTACT IN THREE-DIMENSIONAL MEMORY DEVICE, for which U.S. Provisional Application No. 62/416,859, was filed November 3, 2016, U.S. Provisional Application No. 62/417,575, was filed November 4, 2016, and U.S. Non-Provisional Application No. 15/458,269, was filed March 14, 2017.

WHEREAS, SANDISK TECHNOLOGIES LLC, having its principal place of business at 6900 NORTH DALLAS PARKWAY, SUITE 325 PLANO, TX 75024 (hereinafter referred to as "ASSIGNEE") is desirous of acquiring the entire interest therein;

NOW THEREFORE, in view of good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNOR has sold, assigned, and transferred, and by these presents hereby sells, assigns, and transfers, unto ASSIGNEE, its successors and assigns, the full and exclusive right, title, and interest in and to (a) the above-identified invention or inventions and all improvements and modifications thereof, (b) the above-identified application and all other applications for Letters Patent of the United States and countries foreign thereto for the above-identified invention or inventions and all improvements and modifications thereof, (c) all Letters Patent which may issue from said applications in the United States and countries foreign thereto, (d) all divisions, continuations, reissues, and extensions of said applications and Letters Patent, and (e) the right to claim for any of said applications the full benefits and priority rights under the International Convention and any other international agreement to which the United States adheres; such right, title, and interest to be held and enjoyed by ASSIGNEE, its successors and assigns, to the full end of the term or terms for which any and all such Letters Patent may be granted as fully and entirely as would have been held and enjoyed by ASSIGNOR had this Assignment not been made.

ASSIGNOR HEREBY AUTHORIZES AND REQUESTS the Commissioner of Patents and Trademarks to issue said Letters Patent to ASSIGNEE as assignee of the entire interest, for the sole use and benefit of ASSIGNEE, its successors and assigns.

ASSIGNOR HEREBY AGREES (a) to communicate to ASSIGNEE, its successors and assigns, or their representatives or agents, all facts and information known or available to ASSIGNOR respecting said invention or inventions, improvements, and modifications including evidence for interference, reexamination, reissue, opposition, revocation, extension, or infringement purposes or other legal, judicial, or administrative proceedings, whenever requested by ASSIGNEE; (b) to testify in person or by affidavit as required by ASSIGNEE, its successors and assigns, in any such proceeding in the United States or a country foreign thereto; (c) to execute and deliver, upon request by ASSIGNEE, all lawful papers including, but not limited to, original, divisional, continuation, and reissue applications, renewals, assignments, powers of attorney, oaths, affidavits, declarations, depositions; and (d) to provide all reasonable assistance to ASSIGNEE, its successors and assigns, in obtaining and enforcing proper title in and

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protection for said invention or inventions, improvements, and modifications under the intellectual property laws of the United States and countries foreign thereto.

ASSIGNOR HEREBY REPRESENTS AND WARRANTS that ASSIGNOR has the full and unencumbered right to sell, assign, and transfer the interests sold, assigned, and transferred herein, and that ASSIGNOR has not executed and will not execute any document or instrument in conflict herewith.

ASSIGNOR HEREBY GRANTS to the law firm of **The Marbury Law Group PLLC** the power and authority to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

ASSIGNOR UNDERSTANDS AND AGREES that the attorneys and agents of the law firm of **The Marbury Law Group PLLC** do not personally represent ASSIGNOR or ASSIGNOR's legal interests, but instead represent the interests of ASSIGNEE; since said attorneys and agents cannot provide legal advice to ASSIGNOR with respect to this Assignment, ASSIGNOR acknowledges its right to seek its own independent legal counsel.

NAMES AND SIGNATURES OF INVENTORS			
Name: Hiroyuki OGAWA	Signature:	Date:	
	74. Ug ouve. Signature! Jamo Kasagi	3/13/2017	
Name: Yasuo KASAGI	Signature.	Date:	
	Jawo Kasagi	3/13/2017	
Name: Satoshi SHIMIZU	Signature:	Date:	
	Satshi Shrings	3/13/2017	
Name: Kazuyo MATSUMOTO	Signature:	Date:	
	Kappyo Motum 5	3/13/2017.	
Name: Yohei MASAMORI	Signature:	Date:	
	afeller	3/13/2007	
Name: Jixin YU	Signature:	Date:	

Customer No.: 97299

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NAMES AND SIGNATURES OF INVENTORS				
Name: <b>Hiroyuki OGAWA</b>	Signature:	Date:		
Name: Yasuo KASAGI	Signature:	Date:		
Name: Satoshi SHIMIZU	Signature:	Date.		
Name: Kazuyo MATSUMOTO	Signature:	Date:		
Name: Yohei MASAMORI	Signature:	Date:		
Name: <b>Jixin YU</b>	Signature: ズーベ チ .	Date: 3/10/2017		

Customer No.: 97299

Name: Tong ZHANG

Signature:

Date:

Name: James KAI

Signature:

Date:

3/10/2017