

PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT5691086

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	MATS OBERG	08/19/2019
	HAO FANG	08/20/2019
RECEIVING PARTY DATA		
Name:	MARVELL SEMICONDUCTOR, INC.	
Street Address:	5488 MARVELL LANE	
City:	SANTA CLARA	
State/Country:	CALIFORNIA	
Postal Code:	95054	
PROPERTY NUMBERS Total: 1		
	Property Type	Number
	Application Number:	16545966
CORRESPONDENCE DATA		
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NAME OF SUBMITTER:	KELVIN VIVIAN	
SIGNATURE:	/Kelvin Vivian/	
DATE SIGNED:	08/28/2019	
Total Attachments: 3		
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ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency for which is hereby acknowledged, I or We, the undersigned,

Mats Oberg and Hao Fang

who have created certain invention for which one or more patent applications identified below (hereinafter "the Patent Application(s)") that have been, or are to be filed:

<u>Marvell Case No.</u>	<u>Application No.</u>	<u>Filing Date</u>	<u>Title</u>
MP11007PR	62/720,791	August 21, 2018	Support Pulse Based Writing
MP11007	16/545,966	August 20, 2019	Pulse-Based Writing for Magnetic Storage Media

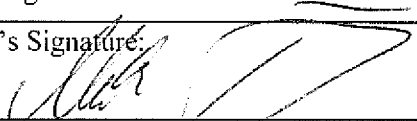
Do hereby confirm any prior assignment, and to the extent that I have not already done so, agree to sell, assign, and transfer, and do hereby sell, assign and transfer to Marvell Semiconductor, Inc., a corporation of California, having a place of business at 5488 Marvell Lane, Santa Clara, CA 95054, and its successors or assigns (hereinafter "Assignee"), the entire rights, title, and interest, including all priority rights, in or to any and all inventions described in the Patent Application(s), the Patent Application(s), and all continuations in whole or in part, divisions, and other applications claiming priority directly or indirectly from the Patent Application(s) which have been or are to be filed in the United States and/or any foreign countries including national stage applications, and any patents, including utility models and other similar registrations, in the United States and/or any foreign countries which may be granted thereon, including but not limited to reissues, renewals, and reexaminations thereof;

Authorize and request that the attorneys of record in any of the Patent Application(s) insert in this assignment the filing date(s) and application number(s) of the Patent Application(s) when officially known (the Assignee authorizes and requests the same);

Agree that Assignee may apply for and receive patents including utility models and other similar registrations for the foregoing rights, title and interest in its own name, in the United States and/or any foreign countries; and that, when requested to carry out in good faith the intent and purpose of this assignment, at the expense of the Assignee, and its successors or assigns, the undersigned will execute all rightful oaths, declarations, assignments, powers of attorney and other papers, testify in any legal or quasi legal proceedings; communicate to the Assignee, and its successors or assigns all facts known to the undersigned relating to the foregoing rights, title and interest; and generally do everything possible and reasonable which the Assignee, and its successors, or assigns consider necessary, desirable or expedient for aiding in securing, maintaining and enforcing proper protection for applicable patent rights and for vesting applicable title in the Assignee and its successors or assigns; and

Covenant with the Assignee, and its successors or assigns that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, there are no outstanding encumbrances, liens or other obligations or restrictions on the rights, titles and interests herein assigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

IN TESTIMONY WHEREOF I have hereunto set my signature or our signatures on the date indicated below.

Full Name of First Inventor:	
Mats Oberg	
Inventor's Signature:	Date: Month/Day/Year
	8/19/2019

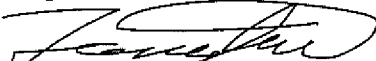
Full Name of Second Inventor:	
Hao Fang	
Inventor's Signature:	Date: Month/Day/Year

Accepted by:

MARVELL SEMICONDUCTOR, INC.

By: Name: Kelvin M. VivianTitle: Director, Assistant General Counsel, IP DevelopmentDate: August 22, 2019

Full Name of First Inventor: Mats Oberg	
Inventor's Signature:	Date: Month/Day/Year

Full Name of Second Inventor: Hao Fang	
Inventor's Signature: 	Date: Month/Day/Year 08/20/2019

Accepted by:

MARVELL SEMICONDUCTOR, INC.

By: Name: Kelvin M. VivianTitle: Director, Assistant General Counsel, IP DevelopmentDate: August 22, 2019