505669786 09/12/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5716593

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the CONVEYING PARTY DATA previously recorded on Reel 050339 Frame 0447. Assignor(s) hereby confirms the ASSIGNOR RECORDED AS "LOU, HUI" SHOULD BE RECORDED AS "LOU, HUI-LING".

CONVEYING PARTY DATA

Name	Execution Date
HUI-LING LOU	04/09/2019

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:	16132154

CORRESPONDENCE DATA

Fax Number: (408)222-2755

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: 408-222-2500 Email: sherir@marvell.com **Correspondent Name: KELVIN VIVIAN** Address Line 1: 5488 MARVELL LANE

Address Line 4: SANTA CLARA, CALIFORNIA 95054

ATTORNEY DOCKET NUMBER:	MP10316
NAME OF SUBMITTER:	KELVIN VIVIAN
SIGNATURE:	/Kelvin Vivian/
DATE SIGNED:	09/12/2019

Total Attachments: 3

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PATENT REEL: 050370 FRAME: 0150 505669786

505665901 09/11/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5712708

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
LIWEN CHU	01/10/2019
HONGYUAN ZHANG	01/10/2019
HUI LOU	04/09/2019

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:	16132154

CORRESPONDENCE DATA

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Phone: 408-222-2500 Email: sherir@marvell.com Correspondent Name: **KELVIN VIVIAN** Address Line 1: 5488 MARVELL LANE

Address Line 4: SANTA CLARA, CALIFORNIA 95054

ATTORNEY DOCKET NUMBER:	MP10316
NAME OF SUBMITTER:	KELVIN VIVIAN
SIGNATURE:	/Kelvin Vivian/
DATE SIGNED:	09/11/2019

Total Attachments: 4

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> **PATENT** REEL: 050370 FRAME: 0151

Docket#: MP10316 PATENT

ASSIGNMENT

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

Liwen Chu, Hongyuan Zhang, and Hui-Ling Lou

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:

Marvell Case No.	Application No.	Filing Date	Title
MP10316PR	US 62/561,988	09/22/2017	Duplex MAC Consideration
MP10325PR	US 62/566,970	10/02/2017	Duplex Transmission Service Period
MP10316	US 16/132,154	09/14/2018	Media Access Control for Duplex Transmissions in Wireless Local Area Networks
MP10316CN	CN 201811116552.3	09/25/2018	Media Access Control for Duplex Transmissions in Wireless Local Area Networks

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

Docket#: MP10316 PATENT

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:	***************************************	
Liwen Chu		
Inventor's Signature:	Date: Month/Day/Year	***************************************

Full Name of Second Inventor:		······································
Hongyuan Zhang		
Inventor's Signature:	Date: Month/Day/Year	***************************************

Full Name of Third Inventor:		
Hui-Ling Lou		
Inventor's Signature:	Date: Month/Day/Year	***************************************
At Jon	4/9/2019	

Accepted by:		
MARVELL SEMICONDUCTOR, INC.		
By: <u>Qu</u> 1/2		
Name: <u>Kelvin M. Vivian</u>		
Title: Director, Assistant General Counsel, IP Development		
Date: <u>SEPTEMBER</u> 5 7019		