

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
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HONGYUAN ZHANG	10/03/2019
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PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16583295
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NAME OF SUBMITTER:	KELVIN VIVIAN
SIGNATURE:	/Kelvin Vivian/
DATE SIGNED:	10/23/2019
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,

Yan Zhang

Hongyuan Zhang

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
MP11083PR	62/740,293	Oct. 2, 2018	PHY Tx/Rx SYSTEM DESIGN FOR EFFICIENT HYBRID ARQ TRANSMISSIONS IN WLAN
MP11083	To be Assigned	To be Assigned	WLAN PHYSICAL LAYER DESIGN FOR EFFICIENT HYBRID ARQ
MP11083WO	To be Assigned	To be Assigned	WLAN PHYSICAL LAYER DESIGN FOR EFFICIENT HYBRID ARQ

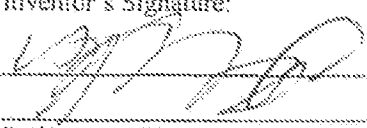
Do hereby confirm any prior assignment, and to the extent that I have not already done so, agree to sell, assign, and transfer, and do hereby sell, assign and transfer to Marvell Semiconductor, Inc., a California corporation, having a principal place of business at 5488 Marvell Lane, Santa Clara, CA 95054, USA 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

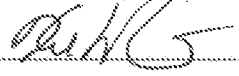
Covenant with the Assignee, and its successors or assigns that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, there are no outstanding encumbrances, liens or other obligations or restrictions on 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 Inventor: Yan Zhang	
Inventor's Signature: 	Date: Month/Day/Year 9/25/19
Full Name of Inventor: Hongyuan Zhang	
Inventor's Signature:	Date: Month/Day/Year

Accepted by:

MARVELL SEMICONDUCTOR, INC.

By: 

Name: Kelvin M. Vivian

Title: Director, Assistant General Counsel, IP Development

Date: OCTOBER 9 2019

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

Full Name of Inventor: Yan Zhang	
Inventor's Signature:	Date: Month/Day/Year

Full Name of Inventor: Hongyuan Zhang	
Inventor's Signature: <i>Hongyuan Zhang</i>	Date: Month/Day/Year <i>10/3/2019</i>

Accepted by:

MARVELL SEMICONDUCTOR, INC.

By: *Kelvin M. Vivian*Name: Kelvin M. VivianTitle: Director, Assistant General Counsel, IP DevelopmentDate: OCTOBER 9 2019

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