PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT6213514

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
CAVIUM INTERNATIONAL	12/31/2019

RECEIVING PARTY DATA

Name:	MARVELL ASIA PTE, LTD.
Street Address:	TAI SENG CENTRE, 3 IRVING ROAD #10-01
City:	SINGAPORE
State/Country:	SINGAPORE
Postal Code:	369522

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	11582067

CORRESPONDENCE DATA

Fax Number: (248)641-1270

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: 248-641-1600
Email: troymailroom@hdp.com, cburns@hdp.com, sstevens@hdp.com
Correspondent Name: HARNESS, DICKEY & PIERCE, P.L.C.
Address Line 1: P.O. BOX 828
Address Line 4: BLOOMFIELD HILLS, MICHIGAN 48303

ATTORNEY DOCKET NUMBER:	MP1022
NAME OF SUBMITTER:	CARLA M. BURNS
SIGNATURE:	/Carla M. Burns/
DATE SIGNED:	07/22/2020

Total Attachments: 4
source=MP1022_3A_CI_to_Marvell_Asia_PTE_Ltd_Assignment_11582067#page1.tif
source=MP1022_3A_CI_to_Marvell_Asia_PTE_Ltd_Assignment_11582067#page2.tif
source=MP1022_3A_CI_to_Marvell_Asia_PTE_Ltd_Assignment_11582067#page3.tif
source=MP1022_3A_CI_to_Marvell_Asia_PTE_Ltd_Assignment_11582067#page4.tif

ASSIGNMENT AND QUITCLAIM TRANSFER

WHEREAS, **Cavium International**, a corporation organized under the laws of Cayman Islands, and with offices at c/o Estera Trust (Cayman) Limited, PO Box 1350, Clifton House, 75 Fort Street, Grand Cayman KY1-1108, Cayman Islands (hereinafter "**Assignor**") owns the patents and patent applications listed in Exhibit A attached hereto and incorporated herein by this reference (hereinafter "**Group A**") and may have an ownership interest in some or all of the patents and patent applications listed in Exhibit B attached hereto and incorporated herein by this reference (hereinafter "**Group B**");

WHEREAS, **Marvell Asia Pte, Ltd.**, a corporation organized under the laws of Singapore, and with offices at Tai Seng Centre, 3 Irving Road, #10-01 Singapore 369522, a limited liability corporation (hereinafter "Assignee"), desires to acquire the Assignor's ownership interest in, to and under the **Group A** and the **Group B**; and

WHEREAS, Assignor has executed on an effective date of December 31, 2019 (hereinafter "**Effective Date**") that certain Transfer and Assignment Agreement assigning, among other things, all interest in and to the **Group A** and transferring by quitclaim its ownership interest, if any, in and to the **Group B** to Assignee (the "Purchase Agreement").

NOW, THEREFORE, for consideration of one dollar ($1.00) and other good and valuable consideration paid by Assignee to Assignor, the receipt and sufficiency of which hereby is acknowledged, Assignor does hereby sell, assign and transfer to Assignee its entire interest in and to the **Group A**, including all divisions, continuations, reexaminations, reissues, and foreign counterparts of the applications and patent registrations for the **Group A** (and the right to claim priority and the right to apply for any of the foregoing); including assignment of any and all provisional applications that are relied upon for priority; all rights to causes of action and remedies related thereto (including, without limitation, the right to sue for past, present or future infringement, misappropriation or violation of rights related to the foregoing); and any and all other rights and interests arising out of, in connection with or in relation to the **Group A**.

FURTHER, for consideration of one dollar ($1.00) and other good and valuable consideration paid by Assignee to Assignor, the receipt and sufficiency of which hereby is acknowledged, Assignor does hereby **quitclaim** sell, assign and transfer to Assignee its ownership interest, if any, in and to the **Group B**, including all divisions, continuations, reexaminations, reissues, and foreign counterparts of the applications and patent registrations for the **Group B** (and the right to claim priority and the right to apply for any of the foregoing); including assignment of any and all provisional applications that are relied upon for priority; all rights to causes of action and remedies related thereto (including, without limitation, the right to sue for past, present or future infringement, misappropriation or violation of rights related to the foregoing); and any and all other rights and interests arising out of, in connection with or in relation to the **Group B**.

FURTHER, nothing contained herein shall be deemed to alter or amend the terms and provisions of the Purchase Agreement and in the event of any conflict between the terms and provisions of this Assignment and the Purchase Agreement, the terms and provisions of the Purchase Agreement shall be deemed to govern and be controlling in all circumstances. This Assignment is executed pursuant to the Purchase Agreement and is entitled to the benefits and subject to the

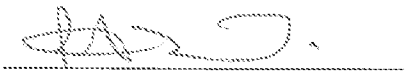
provisions thereof and shall bind and inure to the benefit of the parties thereto and their respective successors and assigns.

FURTHER, Assignor hereby covenants and agrees to execute and deliver, at the request of Assignee, such further instruments of transfer and assignment and to take any other action as such Assignee may reasonably request to more effectively consummate the assignments contemplated by this Assignment. Specifically, Assignor agrees to, at Assignee's expense, execute, acknowledge and deliver such further documents, instruments, conveyances and assurances and take such further actions as may be reasonably required to register in the name of Assignee the assignment of any of the Patents in **Group A** and/or the **Group B** in any appropriate governmental agency or registrar.

IN WITNESS WHEREOF, Assignor and Assignee have executed and delivered this Patent Assignment by their duly authorized representatives at 11:58 pm PST on the **Effective Date**.

ASSIGNOR:

Cavium International,
a corporation organized under the laws of Cayman Islands

By: 

Philip Anderson
Director

ASSIGNEE:

Marvell Asia Pte, Ltd.,
a corporation organized under the laws of Singapore

By: _____

Steven Parker
Director

provisions thereof and shall bind and inure to the benefit of the parties thereto and their respective successors and assigns.

FURTHER, Assignor hereby covenants and agrees to execute and deliver, at the request of Assignee, such further instruments of transfer and assignment and to take any other action as such Assignee may reasonably request to more effectively consummate the assignments contemplated by this Assignment. Specifically, Assignor agrees to, at Assignee's expense, execute, acknowledge and deliver such further documents, instruments, conveyances and assurances and take such further actions as may be reasonably required to register in the name of Assignee the assignment of any of the Patents in **Group A** and/or the **Group B** in any appropriate governmental agency or registrar.

IN WITNESS WHEREOF, Assignor and Assignee have executed and delivered this Patent Assignment by their duly authorized representatives at 11:58 pm PST on the **Effective Date**.

ASSIGNOR:

Cavium International,
a corporation organized under the laws of Cayman Islands

By: _____

Philip Anderson
Director

ASSIGNEE:

Marvell Asia Pte, Ltd.,
a corporation organized under the laws of Singapore

By: _____

Steven Parker
Director

Family Ref No	IP Right ID	Country	Application No.	Filing Date	Patent Number	Issue Date	Status	Title
MP0801	MP0801WO	WO	PCT/US2005/02	7/13/2005			Pending	System And Method For Transferring Data Using Storage Controllers
MP0802	MP0802WO	WO	PCT/US2005/02	7/13/2005			Pending	System And Method For Controlling Buffer Memory Overflow And Underflo
MP0803	MP0803WO	WO	PCT/US2005/02	7/13/2005			Pending	Dynamic WWN Storage Module For Storage Controllers
MP0970	MP0970HK	HK	HK08103121.8	6/4/2002			Pending	PEN WIPING METHOD AND SYSTEM THAT EMPLOYS A THREADMILL BELT
MP1000	MP1000HK	HK	HK06112458.4	11/6/2005			Pending	WIRELESS PRINTER CONFIGURATION MODULE
MP1004	MP1004HK	HK	HK06112110.4	8/31/2005			Pending	LASER PRINT APPARATUS WITH DUAL HALFTONES
MP1005	MP1005HK	HK	HK06112112.2	8/31/2005			Pending	LASER PRINT APPARATUS WITH TONER EXPLOSION COMPENSATION
MP10057	MP10057	US	15/611,050	6/1/2017	10348380	7/9/2019	In Force	Methods and Apparatus for Singular Value Decomposition with Norm Sortin
MP1022	MP1022	US	11/582,067	10/17/2006	7720454	5/18/2010	In Force	Extremely Low If Architecture For In-Band On-Channel (IBOC) Radio
MP10226	MP10226PR	US	62/802,113	2/6/2019			Pending	Method and Apparatus for Extendable Hardware Queues
MP10289	MP10289PR	US	62/767,753	11/15/2018			Pending	LOW-POWER SERIALIZER WITH HALF-RATE CLOCKING FOR SERIAL COMMU
MP10295	MP10295C1	US	0				Not Filed	Modular Memory-Like Layout For FinFET Analog Designs
MP1031	MP1031	US	11/519,370	9/11/2006	8064542	11/22/2011	In Force	SYSTEMS AND METHODS FOR I/Q IMBALANCE CORRECTION AND CALIBRATI
MP10326	MP10326	US	16/049,732	7/30/2018			Pending	WAKEUP RADIO (WUR) PACKET PREAMBLE DESIGN
MP10383	MP10383C1	US	16/702,628	12/4/2019			Pending	Ethernet Transceiver with PHY-Level Signal-Loss Detector
MP10400	MP10400C1	US	0				Not Filed	TWO DIMENSIONAL MAGNETIC RECORDING (TDMR) OFF-TRACK PERFORM
MP10473	MP10473	US	16/690,803	11/21/2019			Pending	SERIAL MANAGEMENT INTERFACE WITH IMPROVED RELIABILITY
MP10473	MP10473PR	US	62/770,537	11/21/2018			Pending	Reliable SMI Access
MP10482	MP10482PR	US	62/771,879	11/27/2018			Pending	Latency optimization using a Smart Samplers Placement
MP10493	MP10493PR	US	62/814,165	3/5/2019			Pending	Flash Controller
MP10494	MP10494	US	16/583,541	9/26/2019			Pending	POLYGONAL BGA SEMICONDUCTOR PACKAGE
MP10494	MP10494C1	US	0				Not Filed	POLYGONAL BGA SEMICONDUCTOR PACKAGE
MP10496	MP10496	US	16/406,898	5/8/2019			Pending	WIFI BACKOFF TIMER
MP10499	MP10499	US	16/566,378	9/10/2019			Pending	METHOD AND APPARATUS FOR TRANSMITTING SIGNALS OVER LONG DISTA
MP10500	MP10500	US	16/583,639	9/26/2019			Pending	METHOD AND APPARATUS FOR TESTING A MULTI-DIE INTEGRATED CIRCUIT
MP10507	MP10507PR	US	62/770,047	11/20/2018			Pending	SELECT BANDWIDTH - REDUCE EMPTY Q NULL SELECT
MP10508	MP10508PR	US	62/771,890	11/27/2018			Pending	Effective Guaranteed Message Buffering
MP1066	MP1066PR	US	60/794,956					
MP11011	MP11011	US	16/525,105	7/29/2019			Pending	CONTROLLING PERFORMANCE OF A SOLID STATE DRIVE
MP11011	MP11011CN	CN	201910700563.	7/31/2019			Pending	CONTROLLING PERFORMANCE OF A SOLID STATE DRIVE
MP11011	MP11011EP	EP	19189312.2	7/31/2019			Pending	CONTROLLING PERFORMANCE OF A SOLID STATE DRIVE
MP11011	MP11011KR	KR	10-2019-00930	7/31/2019			Pending	CONTROLLING PERFORMANCE OF A SOLID STATE DRIVE
MP11016	MP11016PR	US	62/790,701	1/10/2019			Pending	EFFICIENT FREQUENCY DOMAIN IMPLEMENTATION FOR FEED FORWARD E