

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT6554122

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
SHUHUA XIANG	07/23/2009
LI SHA	07/23/2009
CHING-HAN TSAI	07/24/2009
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	MARVELL SEMICONDUCTOR, INC.
<b>Street Address:</b>	5488 MARVELL LANE
<b>City:</b>	SANTA CLARA
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	95054
<b>PROPERTY NUMBERS Total: 2</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	61084419
<b>Patent Number:</b>	9055296
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(214)200-0853
<i>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.</i>	
<b>Email:</b>	ming.armstrong@haynesboone.com, IPDocketing@haynesboone.com
<b>Correspondent Name:</b>	HAYNES AND BOONE, LLP
<b>Address Line 1:</b>	2323 VICTORY AVENUE
<b>Address Line 2:</b>	SUITE 700
<b>Address Line 4:</b>	DALLAS, TEXAS 75219
<b>ATTORNEY DOCKET NUMBER:</b>	70548.1 (170618US03)
<b>NAME OF SUBMITTER:</b>	DENNIS R. GALLAGHER
<b>SIGNATURE:</b>	/Dennis R. Gallagher/
<b>DATE SIGNED:</b>	02/16/2021
<b>Total Attachments: 5</b>	
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**PATENT**

**REEL: 055275 FRAME: 0642**

# PATENT ASSIGNMENT

Electronic Version v1.1

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
Name	Execution Date
Shuhua Xiang	07/23/2009
Li Sha	07/23/2009
Ching-Han Tsai	07/24/2009
<b>RECEIVING PARTY DATA</b>	
Name:	Marvell Semiconductor, Inc.
Street Address:	5488 Marvell Lane
City:	Santa Clara
State/Country:	CALIFORNIA
Postal Code:	95054
<b>PROPERTY NUMBERS Total: 1</b>	
Property Type	Number
Application Number:	12511238
<b>CORRESPONDENCE DATA</b>	
Fax Number:	(408)222-2755
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
Phone:	408-222-2500
Email:	hng@marvell.com
Correspondent Name:	Horace Ng
Address Line 1:	5488 Marvell Lane
Address Line 4:	Santa Clara, CALIFORNIA 95054
ATTORNEY DOCKET NUMBER:	MP2744
NAME OF SUBMITTER:	Horace Ng
Total Attachments: 3 source=MP2744_Assignment_INV_to_MSI#page1.tif source=MP2744_Assignment_INV_to_MSI#page2.tif	

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**PATENT**  
**REEL: 023036 FRAME: 0436**  
**PATENT**  
**REEL: 055275 FRAME: 0643**



## ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I, the undersigned,

**Shuhua XIANG of Fremont, California;**

**Li SHA of San Jose, California;**

**Ching-Han TSAI of San Jose, California; and**

who have created a certain invention for which an application for United States Letters Patent was executed by me concurrently herewith and entitled:

## PROCESSING RASTERIZED DATA

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, its successors, assigns, and legal representatives, the full and exclusive right to said invention and said application and to any and all inventions described in said application for the United States, its territorial possessions and all foreign countries, and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States, its territorial possessions and all foreign countries; and in and to any and all continuations-in-part, continuations, divisions, substitutes, reissues, extensions thereof, and all other applications for Letters Patent relating thereto which have been or shall be filed in the United States, its territorial possessions and/or any foreign countries, and all rights, together with all priority rights, under any of the international conventions, unions, agreements, acts, and treaties, including all future conventions, unions, agreements, acts, and treaties;

Do hereby further sell, assign and transfer to Marvell Semiconductor, Inc., its successors, assigns, and legal representatives, the full and exclusive right to United States Provisional Patent Applications(s) No(s). 61/084,406 and 61/084,419 both filed July 29, 2008, and to any and all inventions described in said provisional patent application(s) for the United States, its territorial possessions and all foreign countries, and the entire right, title and interest in and to any and all Letters Patent which may be entitled to the benefit thereof in the United States, its territorial possessions and all foreign countries; and in and to any and all continuations-in-part, continuations, divisions, substitutes, reissues, extensions thereof, and all other applications for Letters Patent relating thereto which have been or shall be filed in the United States, its territorial possessions and/or any foreign countries, and all rights, together with all priority rights, under any of the international conventions, unions, agreements, acts, and treaties, including all future conventions, unions, agreements, acts, and treaties;


Agree that Marvell Semiconductor, Inc., hereinafter referred to as Assignee, may apply for and receive Letters Patent for said invention and said inventions, hereinafter referred to as said invention, in its own name, in the United States, its territorial possessions, and all foreign countries; and that, when requested to carry out in good faith the intent and purpose of this assignment, at the expense of said Assignee, its successors, assigns and legal representatives, the undersigned will execute all continuations-in-part, continuations, divisions, substitutes, reissues, extensions thereof, execute all rightful oaths, assignments, powers of attorney and other papers, testify in any legal or quasi legal proceedings; communicate to said Assignee, its successors, assigns or legal representatives all facts known to the undersigned relating to said invention and the history thereof; and generally do everything possible which said Assignee, its successors, assigns, or legal representatives shall consider desirable for aiding in securing, maintaining and enforcing proper patent protection for said invention and for vesting title to said invention and all applications for patents on said invention in said Assignee, its successors, assigns, or legal representatives; and

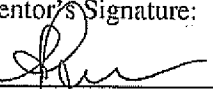
Covenant with said Assignee, its successors, assigns, or legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Docket#: MP2744

PATENT

IN TESTIMONY WHEREOF I have hereunto set MY signature on the date indicated below.

Full Name of First Inventor:	
Shuhua XIANG	
Inventor's Signature: 	Date: Month/Day/Year 7/23/09

Full Name of Second Inventor:	
Li SHA	
Inventor's Signature: 	Date: Month/Day/Year 7/23/09

Full Name of Third Inventor:	
Ching-Han TSAI	
Inventor's Signature:	Date: Month/Day/Year

Docket#: MP2744

PATENT

IN TESTIMONY WHEREOF I have hereunto set MY signature on the date indicated below.

Full Name of First Inventor: <b>Shuhua XIANG</b>	
Inventor's Signature:	Date: Month/Day/Year

Full Name of Second Inventor: <b>LI SHA</b>	
Inventor's Signature:	Date: Month/Day/Year

Full Name of Third Inventor: <b>Ching-Han TSAI</b>	
Inventor's Signature: <i>Ching-Han Tsai</i>	Date: Month/Day/Year <i>7/24/09</i>