503471956 09/09/2015

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

NEW ASSIGNMENT

EPAS ID: PAT3518581

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
LIWEN CHU	11/10/2014
HUI-LING LOU	01/11/2015
HONGYUAN ZHANG	11/13/2014

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:	14539130

CORRESPONDENCE DATA

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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: 4082222500

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Correspondent Name: NEILESH PATEL
Address Line 1: 5488 MARVELL LANE

Address Line 4: SANTA CLARA, CALIFORNIA 95054

ATTORNEY DOCKET NUMBER:	MP5525
NAME OF SUBMITTER:	NEILESH PATEL
SIGNATURE:	/NEILESH PATEL/
DATE SIGNED:	09/09/2015

Total Attachments: 4

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PATENT 503471956 REEL: 036523 FRAME: 0722

ASSIGNMENT

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

Liwen Chu, Hui-Ling Lou, and Hongyuan Zhang

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

METHOD AND APPARATUS FOR SYNCRONIZING TIMING AMONG DEVICES IN A WIRELESS LOCAL AREA NETWORK (WLAN)

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 Application(s) No(s), 61/902,963, filed November 12, 2013, entitled, "TSF Time in Short Beacon," 61/928,728, filed January 17, 2014, entitled, "TSF Time in Short Beacon," and 61/974,940, filed April 3, 2014, entitled, "TSF Time in Short Beacon," 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.

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

Full Name of First Inventor:		
Liwen Chu		
Inventor's Signature:	Date: Month/Day/Year	
Le Ch	1/19/14	
Full Name of Second Inventor:		
Hui-Ling Lou		
Inventor's Signature:	Date: Month/Day/Year	

Full Name of Third Inventor:		
Hongyuan Zhang		
Inventor's Signature:	Date: Month/Day/Year	
		1

Full Name of First Inventor:		
Liwen Chu		
Inventor's Signature:	Date: Month/Day/Year	
Full Name of Second Inventor:		***************************************
Hui-Ling Lou		
Inventor's Signature:	Date: Month/Day/Year	
Full Name of Third Inventor:		
Hongyuan Zhang		
Inventor's Signature:	Date: Month/Day/Year	***************************************

Full Name of First Inventor:	
Liwen Chu	
Inventor's Signature:	Date: Month/Day/Year
Full Name of Second Inventor:	
Hui-Ling Lou	
Inventor's Signature:	Date: Month/Day/Year
Full Name of Third Inventor:	***************************************
Hongyuan Zhang	***************************************
Inventor's Signature:	Date: Month/Day/Year
Hary - Fly	11/13/2014