

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
SAGAR A. TAMHANE	04/21/2015
PAUL A. LAMBERT	04/20/2015
BINH QUOC TRAN	04/21/2015
SARANG SHRIKRISHNA WAGHOLIKAR	04/17/2015
LIWEN CHU	04/22/2015
HONGYUAN ZHANG	04/21/2015
HUI-LING LOU	04/22/2015
RECEIVING PARTY DATA	
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PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	14693744
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NAME OF SUBMITTER:	KELVIN VIVIAN
SIGNATURE:	/Kelvin Vivian/
DATE SIGNED:	02/17/2016

Total Attachments: 5

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ASSIGNMENT

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

**Sagar A. Tamhane, Paul A. Lambert, Binh Quoc Tran, Sarang Shrikrishna Wagholikar,
Liwen Chu, Hongyuan Zhang, Hui-Ling Lou**

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

Methods and Apparatus for Beaconing Within a Wireless Network Based on an Indication of Distance


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;

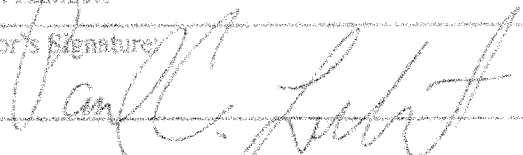
Do hereby further sell, assign and transfer to Marvell Semiconductor, Inc., its successors, assigns, and legal representatives, the full and exclusive right to United States Provisional Patent Applications(s) No(s). 61/986,700, filed April 30, 2014, entitled "WLS Enhanced NAN Protocol" and to any and 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:	
Sagar A. Tamhane	
Inventor's Signature:	Date: Month/Day/Year
	4/21/2015

Full Name of Second Inventor:	
Paul A. Leibel	
Inventor's Signature:	Date: Month/Day/Year
	April 20, 2015

Full Name of Third Inventor:	
Binh Quoc Tran	
Inventor's Signature:	Date: Month/Day/Year


Full Name of Fourth Inventor:	
Sarang Shrikrishna Wagholikar	
Inventor's Signature:	Date: Month/Day/Year

Full Name of Fifth Inventor:	
Liwen Cho	
Inventor's Signature:	Date: Month/Day/Year

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

Full Name of Seventh Inventor:	
Hui-Ling Lou	
Inventor's Signature:	Date: Month/Day/Year

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Inventor's Signature:	Date: Month/Day/Year

Full Name of Third Inventor: Binh Quoc Tran	
Inventor's Signature: 	Date: Month/Day/Year 4/21/2015

Full Name of Fourth Inventor: Sarang Shrikrishna Waghlikar	
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Inventor's Signature:	Date: Month/Day/Year

Full Name of Sixth Inventor: Hongyuan Zhang	
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Full Name of Third Inventor: Binh Quoc Tran	
Inventor's Signature:	Date: Month/Day/Year

Full Name of Fourth Inventor: Sarang Shrikrishna Waghlikar	
Inventor's Signature: <i>S. Waghlikar</i>	Date: Month/Day/Year 04/17/2015

Full Name of Fifth Inventor: Liwen Chu	
Inventor's Signature:	Date: Month/Day/Year

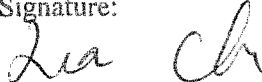
Full Name of Sixth Inventor: Hongyuan Zhang	
Inventor's Signature:	Date: Month/Day/Year


Full Name of Seventh Inventor: Hui-Ling Lou	
Inventor's Signature:	Date: Month/Day/Year


Full Name of Second Inventor: Paul A. Lambert	
Inventor's Signature:	Date: Month/Day/Year

Full Name of Third Inventor: Binh Quoc Tran	
Inventor's Signature:	Date: Month/Day/Year

Full Name of Fourth Inventor: Sarang Shrikrishna Wagholikar	
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Inventor's Signature: 	Date: Month/Day/Year 04/22/2015

Full Name of Sixth Inventor: Hongyuan Zhang	
Inventor's Signature: 	Date: Month/Day/Year 04/21/2015

Full Name of Seventh Inventor: Hui-Ling Lou	
Inventor's Signature: 	Date: Month/Day/Year 4/22/2015