

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT						
NATURE OF CONVEYANCE:	ASSIGNMENT						
CONVEYING PARTY DATA							
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>KRISHNA SRIKANTH GOMADAM</td> <td>09/06/2012</td> </tr> <tr> <td>YAKUN SUN</td> <td>09/07/2012</td> </tr> </tbody> </table>		Name	Execution Date	KRISHNA SRIKANTH GOMADAM	09/06/2012	YAKUN SUN	09/07/2012
Name	Execution Date						
KRISHNA SRIKANTH GOMADAM	09/06/2012						
YAKUN SUN	09/07/2012						
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							
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13610908</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13610908		
Property Type	Number						
Application Number:	13610908						
CORRESPONDENCE DATA							
Fax Number:	4082222755						
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>							
Phone:	4082222500						
Email:	CAROLYNS@MARVELL.COM						
Correspondent Name:	HORACE NG						
Address Line 1:	5488 MARVELL LANE						
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ATTORNEY DOCKET NUMBER:	MP4463						
NAME OF SUBMITTER:	HORACE NG						
Total Attachments: 2 source=MP4463_EXECUTED ASSIGNMENT INV TO MSI#page1.tif source=MP4463_EXECUTED ASSIGNMENT INV TO MSI#page2.tif							

OP \$40.00 13610908

ASSIGNMENT

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

Krishna Srikanth Gomadam; Yakun Sun

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

ENHANCED DEMODULATION REFERENCE SIGNAL (DM-RS) DESIGN

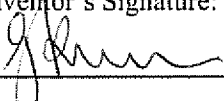
Do hereby sell, assign and transfer to Marvell Semiconductor, Inc., a corporation of California, having a place of business at 5488 Marvell Lane, Santa Clara, CA 95054, its successors, assigns, and legal representatives, the full and exclusive right to said invention and said application and to any and 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 No. 61/570,769, filed on December 14, 2011, entitled, Enhanced DM-RS design for Release 11 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;

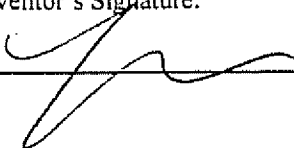
Agree that Marvell Semiconductor, Inc., hereinafter referred to as Assignee, may apply for and receive Letters Patent for said invention and said inventions, hereinafter referred to as said invention, in its own name, in the United States, its territorial possessions, and all foreign countries; and that, 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: Krishna Srikanth Gomadam	
Inventor's Signature: 	Date: Month/Day/Year 09/06/12

Docket #: MP4463

Full Name of Second Inventor: Yakun Sun	
Inventor's Signature: 	Date: Month/Day/Year 9-7-12