

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
SUDARSHAN SHINDE	05/08/2015
TARUN CHOWDARY KANCHARLA	05/08/2015
PANIKUMAR K G	05/08/2015
SRINIVAS GANDE	05/08/2015
RECEIVING PARTY DATA	
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Street Address:	1ST FLOOR MUTTHA TOWERS, DON BOSCO MARG (OFF AIRPORT ROAD)
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Postal Code:	411006
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	14708671
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SIGNATURE:	/KELVIN VIVIAN/
DATE SIGNED:	01/18/2016
Total Attachments: 3	
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ASSIGNMENT

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

**Sudarshan Shinde
Tarun Chowdary Kancharla
Panikumar K G
Srinivas Gande**

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

**METHODS AND SYSTEMS FOR HIGH DEFINITION SCALING
WITH LOW HARDWARE COMPLEXITY**


Do hereby sell, assign and transfer to Marvell India Pvt. Ltd., a corporation of India, having a place of business at 1st Floor Muttha Towers, Don Bosco Marg (Off Airport Road), Pune – 411006, India, 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 therefore 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 India Pvt. Ltd., its successors, assigns, and legal representatives, the full and exclusive right to United States Provisional Patent Applications(s) No(s). 61/991,935 filed May 12, 2014, entitled, "ULTRA HIGH DEFINITION DIRECTIONAL SCALAR WITH LOW HARDWARE COMPLEXITY" 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 India Pvt. Ltd., 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 we have hereunto set OUR signatures on the dates indicated below.

Full Name of First Inventor: Sudarshan Shinde	
Inventor's Signature: 	Date: Month/Day/Year 05/08/2015

Full Name of Second Inventor: Tarun Chowdary Kancharla	
Inventor's Signature:	Date: Month/Day/Year

Full Name of Third Inventor: Panikumar K G	
Inventor's Signature:	Date: Month/Day/Year

Full Name of Fourth Inventor: Srinivas Gande	
Inventor's Signature:	Date: Month/Day/Year

Full Name of First Inventor: Sudarshan Shinde	
Inventor's Signature:	Date: Month/Day/Year

Full Name of Second Inventor: Tarun Chowdary Kancharla	
Inventor's Signature: <i>T. Tarun</i>	Date: Month/Day/Year 05/08/2015

Full Name of Third Inventor: Panikumar K G	
Inventor's Signature: <i>P. Panikumar</i>	Date: Month/Day/Year 05/08/2015

Full Name of Fourth Inventor: Srinivas Gande	
Inventor's Signature: <i>S. Gande</i>	Date: Month/Day/Year 05/08/2015