

PATENT ASSIGNMENT COVER SHEET

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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>SANDEEP KARMAKAR</td> <td>06/18/2013</td> </tr> <tr> <td>PARESH PHADKE</td> <td>06/07/2013</td> </tr> </tbody> </table>		Name	Execution Date	SANDEEP KARMAKAR	06/18/2013	PARESH PHADKE	06/07/2013
Name	Execution Date						
SANDEEP KARMAKAR	06/18/2013						
PARESH PHADKE	06/07/2013						
RECEIVING PARTY DATA							
Name:	MARVELL INDIA PVT. LTD.						
Street Address:	1ST FLOOR MUTTHA TOWERS						
Internal Address:	DON BOSCO MARG (OFF AIRPORT RD)						
City:	PUNE						
State/Country:	INDIA						
Postal Code:	411006						
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>13921562</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13921562		
Property Type	Number						
Application Number:	13921562						
CORRESPONDENCE DATA							
Fax Number:	(408)222-2755						
Phone:	408-222-2500						
Email:	sherir@marvell.com						
<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>							
Correspondent Name:	HORACE NG						
Address Line 1:	5488 MARVELL LANE						
Address Line 4:	SANTA CLARA, CALIFORNIA 95054						
ATTORNEY DOCKET NUMBER:	MP4819						
NAME OF SUBMITTER:	HORACE NG						
Signature:	/Horace Ng/						
Date:	10/17/2013						

OP \$40.00 13921562

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Total Attachments: 4

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Docket#: MP4819

PATENT

ASSIGNMENT

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

Sandeep Karmarkar and Paresh Phadke

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

Memory Systems Including A Duplicate Removing Filter Module That Is Separate From A Cache Module

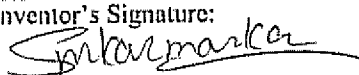
Do hereby sell, assign and transfer to Marvell India Pvt. Ltd., a corporation of India, having a place of business at 1st Floor Muttha Towers, Don Bosco Marg (Off Airport Road), Pune - 411006, India, its successors, assigns, and legal representatives, the full and exclusive right to said invention and 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 Application No. 61/667,051, filed July 2, 2012, entitled, "Dedupe Filter" 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 I have hereunto set MY signature on the date indicated below.

Full Name of Sole/First Inventor:	
Sandeep Karmarkar	
Inventor's Signature:	Date: Month/Day/Year
	06/18/2013

Full Name of Second Inventor, if any:	
Paresh Phadke	
Inventor's Signature:	Date: Month/Day/Year

Docket#: MP4819

PATENT

ASSIGNMENT

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Sandeep Karmarkar and Paresh Phadke

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

Memory Systems Including A Duplicate Removing Filter Module That Is Separate From A Cache Module

Do hereby sell, assign and transfer to Marvell India Pvt. Ltd., a corporation of India, having a place of business at 1st Floor Mutha 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;

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

Full Name of Sole/First Inventor:

Sandeep Karmarkar

Inventor's Signature:

Date: Month/Day/Year

PATENT

REEL: 031424 FRAME: 0988

Docket#: MP04819

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Full Name of Second Inventor, if any:

Paresh Phadke

Inventor's Signature:



Date: Month/Day/Year

06/07/2013

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RECORDED: 10/17/2013

REEL: 031424 FRAME: 0989