

## PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

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>Jungwon Lee</td><td>07/20/2007</td></tr><tr><td>Woong Jun Jang</td><td>07/20/2007</td></tr><tr><td>Leilei Song</td><td>07/20/2007</td></tr></tbody></table>		Name	Execution Date	Jungwon Lee	07/20/2007	Woong Jun Jang	07/20/2007	Leilei Song	07/20/2007		
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Leilei Song	07/20/2007										
RECEIVING PARTY DATA											
<table border="1"><tr><td>Name:</td><td>Marvell Semiconductor, Inc.</td></tr><tr><td>Street Address:</td><td>5488 Marvell Lane</td></tr><tr><td>City:</td><td>Santa Clara</td></tr><tr><td>State/Country:</td><td>CALIFORNIA</td></tr><tr><td>Postal Code:</td><td>95054</td></tr></table>		Name:	Marvell Semiconductor, Inc.	Street Address:	5488 Marvell Lane	City:	Santa Clara	State/Country:	CALIFORNIA	Postal Code:	95054
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Application Number:	60822821										
CORRESPONDENCE DATA											
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ATTORNEY DOCKET NUMBER:	MP2026										

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PATENT  
REEL: 019604 FRAME: 0348

NAME OF SUBMITTER:

Andrew Shiue

Total Attachments: 4

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**PATENT**

**REEL: 019604 FRAME: 0349**

## ASSIGNMENT

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

**Jungwon Lee, Woong Jun Jang and Lellei Song**

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

**SYMBOL-LEVEL COMBINING FOR MIMO SYSTEMS  
WITH HARQ AND/OR REPETITION CODING**

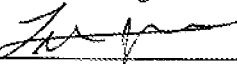
Do hereby sell, assign and transfer to Marvell Semiconductor, Inc., a corporation of California, having a place of business at 5488 Marvell Lane, Santa Clara, CA 95054, its successors, assigns, and legal representatives, the full and exclusive right to said invention and said application and to any and 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). 60/820,419, filed July 26, 2006; 60/822,294, filed August 14, 2006; and 60/822,821, filed August 18, 2006 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 we have hereunto set OUR signatures on the dates indicated below.

Full Name of First Inventor:	
Jungwon Lee	
Inventor's Signature:	Date: Month/Day/Year
	7/20/07

Full Name of Second Inventor:	
Woong Jun Jang	
Inventor's Signature:	Date: Month/Day/Year

Full Name of Third Inventor:	
Leilei Song	
Inventor's Signature:	Date: Month/Day/Year
	7/20/2007

Docket#: MP2026

PATENT

ASSIGNMENT

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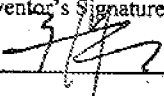
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PATENT

REEL: 019604 FRAME: 0352

IN TESTIMONY WHEREOF we have hereunto set OUR signatures on the dates indicated below.

Full Name of First Inventor:	
Jungwon Lee	
Inventor's Signature:	Date: Month/Day/Year

Full Name of Second Inventor:	
Woong Jun Jang	
Inventor's Signature:	Date: Month/Day/Year
	July 20, 2007

Full Name of Third Inventor:	
Leilei Song	
Inventor's Signature:	Date: Month/Day/Year