PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Sung Cheol CHANG	03/02/2010
Sung-Geun JIN	03/02/2010
Kwang-Jae LIM	03/02/2010
Chul Sik YOON	03/02/2010

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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12676996

CORRESPONDENCE DATA

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PATENT

REEL: 024043 FRAME: 0985

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ATTORNEY DOCKET NUMBER:	0204-0107	
NAME OF SUBMITTER:	Stephanie Bolger	
Total Attachments: 4 source=0204-0107AssignmentAsFiled#page1.tif source=0204-0107AssignmentAsFiled#page2.tif source=0204-0107AssignmentAsFiled#page3.tif source=0204-0107AssignmentAsFiled#page4.tif		

PATENT REEL: 024043 FRAME: 0986 Form **PTO-1595** (Rev. 07/05) OMB No. 0651-0027 (exp. 6/30/2008)

RECORDATION FORM COVER SHEET **PATENTS ONLY** To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below. 1. Name of conveying party(ies) 2. Name and address of receiving party(ies) 1) Sung Cheol CHANG, 2) Sung-Geun JIN, 3) Kwang-Jae LIM, Name: Electronics and Telecommunications Research Inst. and 4) Chul Sik YOON Internal Address: Additional name(s) of conveying party(ies) attached? 🔲 Yes 🔽 No 3. Nature of conveyance/Execution Date(s): Street Address: 161, Gajeong-dong, Yuseong-gu Execution Date(s) March 2, 2010 ✓ Assignment Merger City: Daejeon Security Agreement Change of Name Government Interest Assignment Country: Republic of Korea Zip:305-350 Executive Order 9424, Confirmatory License Other Additional name(s) & address(es) attached? Ves No A. Patent Application No.(s) B. Patent No.(s) 12/676,996 Additional numbers attached? Yes V No 5. Name and address to whom correspondence 6. Total number of applications and patents concerning document should be mailed: involved: One Name: Jefferson IP Law, LLP 7. Total fee (37 CFR 1.21(h) & 3.41) \$ Internal Address: Maeng-Ho Shin Authorized to be charged to deposit account Enclosed Street Address: 1130 Connecticut Ave., NW, Suite 420 None required (government interest not affecting title) 8. Payment Information City: Washington a. Credit Card Last 4 Numbers _____ State: District of Columbia Zip:20036 Expiration Date Phone Number: 202-293-0804 b. Deposit Account Number _____ Fax Number: 202-403-3587 Authorized User Name ___ Email Address: usdocketing@jeffersonip.com 9. Signature: /Maeng-Ho SHIN/ Reg. #53,859 March 8, 2010 Signature Date Total number of pages including cover Maeng-Ho Shin sheet, attachments, and documents: Name of Person Signing

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

Additional name and address of receiving parties:

Name: SAMSUNG ELECTRONICS CO., LTD.

Address: 416, Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do 442-742,

Republic of Korea

PATENT REEL: 024043 FRAME: 0988 Attorncy Docket No.: Client Docket No.:

Assignment

WHEREAS, the following inventors, namely CHANG, Sung Cheol of 309-901, Expo Apt., Jeonmin-dong, Yuseong-gu, Daejeon 305-761, Republic of Korea; JIN, Sung-Geun of 702-2002, Banseokmaeul 7-danji, Banseok-dong, Yuseong-gu, Daejeon 305-150, Republic of Korea; LIM, Kwang-Jae of 403-201, Technovalley Sangyong Apt., Gyuanpyung-dong, Yuseong-gu, Daejeon 305-509, Republic of Korea; and YOON, Chul Sik of 4-402, Samik Sunkyung Apt., Hagye 1-dong, Nowon-gu, Seoul 139-777, Republic of Korea (hereinafter called "Assignors"), having made or discovered certain new, useful and non-obvious improvements in an invention having a working title of:

METHOD FOR ALLOCATING RESOURCE AND RECEIVING DATA

for which a United States Patent Application is being filed concurrently herewith or, if not being concurrently filed, was filed on March 8, 2010, and assigned Serial No. 12/676, 996; and,

WHEREAS, Electronics and Telecommunications Research Institute, a research institute duly organized under the laws of the Republic of Korea, located and doing business at 161, Gajeong-dong, Yuseong-gu, Daejeon 305-350, Republic of Korea; and Samsung Electronics Co., Ltd., a corporation duly organized under the laws of the Republic of Korea, located and doing business at 416, Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do 442-742, Republic of Korea, (hereinafter called "Assignees"), is desirous of acquiring the entire right, title and interest therein;

NOW, THEREFORE, BE IT KNOWN that for and in good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignors do hereby sell, assign and transfer unto said Assignees the entire and exclusive worldwide right, title and interest in and to all said inventions and discoveries disclosed in said application, and in and to said application, any and all substitutions, divisions, provisionals, conversions of provisionals and continuations thereof, and in and to all Letters Patent, United States and foreign, that may be granted for said inventions and discoveries, and in and to all extensions, renewals and reissues thereof; and the right to file any foreign application and/or claim priority under the provisions of any international treaty or convention arising from this application or any divisional, continuing, substitute or reissue application therefrom. The aforesaid assignment includes the right in and to all income, royalties, damages and payments, now or hereafter due or payable with respect to any Letters Patent which may be granted, and in and to all causes of action (either in law or in equity), and the right to sue, counterclaim, and recover for past, present and future infringement of the rights assigned or to be assigned under this Assignment, as fully and entirely as the same would have been held and enjoyed by Assignors if this sale, assignment and transfer had not been made.

Assignors covenant and agree, without further compensation to said Assignors but at Assignees' expense:

- a. to execute:
 - i. all papers to be used in connection with this application and any divisional, continuing, substitute or reissue application thereof, as the Assignees may deem necessary or expedient, and
 - ii. all papers in connection with any interference, litigation, mediation, arbitration or other proceeding relating to this application or any divisional, continuing, substitute or reissue application thereof, as may be necessary or expedient;
- b. to cooperate with the Assignees in every way possible in obtaining evidence and going forward in any interference, litigation, mediation, arbitration or other proceeding relating to said invention, said application and any divisional, continuing, substitute or reissue application thereof;
- c. to communicate to the Assignees any facts relating to said invention, said application and any divisional, continuing, substitute or reissue application thereof, including evidence for any interference, litigation, mediation, arbitration or other proceeding relating to said invention, whenever requested;

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Attorney Docket No.: Client Docket No.:

- to testify in any interference, litigation, mediation, arbitration or other proceeding relating to said invention, said application and any divisional, continuing, substitute or reissue application thereof whenever requested; and
- to perform all other affirmative acts which may be necessary or desirable to secure full and complete protection of the inventions and discoveries or that may be necessary or desirable to vest in Assignees the complete title to the inventions and discoveries and Letters Patent hereby conveyed and to enable Assignees to record title.

Assignors hereby authorize and request the United States Patent and Trademark Office or any other issuing authority to issue any and all Letters Patent that may be granted upon this invention and/or this application or any divisional, continuing, substitute or reissue application thereof to the Assignees, their legal representatives, successors and assigns.

Assignors each hereby represent, covenant and warrant that he or she has the full right to convey the entire right, title and interest by this instrument, free of any encumbrances and that no other agreement has been or will be executed in conflict herewith.

The provisions of this Assignment are binding upon each Assignors' heirs, legal representatives and/or administrators and assigns.

Assignors hereby grant to the law firm of JEFFERSON IP Law, LLP of Washington, DC and their attorneys and agents as associated with Customer No. 68103 the authority and power to insert on this instrument any further identification which may be necessary or desirable for purposes of recordation in the United States Patent and Trademark Office or a Patent Office of any foreign country.

Signature of First Inventor:	NY 18 46	Mar.2,2010
	CHANG, Sung Cheol	Date
Signature of Second Inventor:	Sow	Mar.2,2010
	JIN, Sung-Geun	Date
Signature of Third Inventor:	KwangJing	Mar.2,2010
	LIM, Kwang-Jae	Date
Signature of Fourth Inventor:	Yoon, Chulsile	Mar.2,2010
	YOON, Chul Sik	Date

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