PATENT ASSIGNMENT

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Stylesheet Version v1.1

SUBMISSION TYPE:		NEW ASSIGNMENT	NEW ASSIGNMENT		
NATURE OF CONVE	YANCE:	ASSIGNMENT	ASSIGNMENT		
CONVEYING PARTY	/ DATA	1			
		Name		Execution Date	7
Sung Won LEE				01/19/2012	
Han Na LIM				01/30/2012	
Beom Sik BAE				01/30/2012	
RECEIVING PARTY	DATA				
Name:	SAMSUNG E	SAMSUNG ELECTRONICS CO., LTD.			
Street Address:	416, Maetan-	dong, Yeongtong-gu]
City:	Suwon-si, Gy	veonggi-do]
State/Country:	REPUBLIC C	DF KOREA]
Name:	KYUNG HEE	KYUNG HEE UNIVERSITY INDUSTRY ACADEMIC COOPERATION			
Street Address:	1, Seocheon-	1, Seocheon-dong, Giheung-gu			
City:	Yoingin-si, G	yeonggi-do			
City: State/Country:	Yoingin-si, G				
State/Country:	REPUBLIC C		Number		<u>]</u>]
State/Country:	REPUBLIC C RS Total: 1		Number]
State/Country: PROPERTY NUMBE	REPUBLIC C RS Total: 1 Type	DF KOREA	Number]
State/Country: PROPERTY NUMBE Property T Application Number:	REPUBLIC C RS Total: 1 Type E DATA (202)40	DF KOREA 13387816 3-3587	Number]
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State/Country: PROPERTY NUMBE Property T Application Number: CORRESPONDENCI Fax Number: Phone: Email:	REPUBLIC C RS Total: 1 Type E DATA (202)40 202-293 usdocke	DF KOREA 13387816 3-3587 3-0804			
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State/Country: PROPERTY NUMBE Property T Application Number: CORRESPONDENCE Fax Number: Phone: Email: <i>Correspondence will</i> <i>via US Mail.</i> Correspondent Name Address Line 1:	REPUBLIC C RS Total: 1 Type E DATA (202)40 202-293 usdocke be sent to the e	DF KOREA 13387816 3-3587 3-0804 eting@jeffersonip.com <i>e-mail address first; if that is uns</i>]
State/Country: PROPERTY NUMBER Property T Application Number: CORRESPONDENCE Fax Number: Phone: Email: <i>Correspondence will</i> <i>via US Mail.</i> Correspondent Name	REPUBLIC C RS Total: 1 Fype E DATA (202)40 202-293 usdocke be sent to the e E Jefferso 1130 Cc Suite 42	DF KOREA DF KOREA 3-3587 3-3587 3-0804 eting@jeffersonip.com <i>e-mail address first; if that is uns</i> n IP Law, LLP ponnecticut Ave., NW	uccessful, it will be se		

ATTORNEY DOCKET NUMBER:	0203-0725			
NAME OF SUBMITTER:	Gregory L. Clinton			
Total Attachments: 6 source=0203-0725AssignmentAsFiled#page1.tif source=0203-0725AssignmentAsFiled#page2.tif source=0203-0725AssignmentAsFiled#page3.tif source=0203-0725AssignmentAsFiled#page4.tif source=0203-0725AssignmentAsFiled#page5.tif source=0203-0725AssignmentAsFiled#page6.tif				

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 Won LEE, 2) Han Na LIM, and 3) Beom Sik BAE	Name: Samsung Electronics Co., Ltd.						
	Internal Address:						
Additional name(s) of conveying party(ies) attached? Yes No 3. Nature of conveyance/Execution Date(s): Execution Date(s) Jan. 19, 2012 and Jan. 30, 2012 Assignment Merger Security Agreement Change of Name Joint Research Agreement Government Interest Assignment Executive Order 9424, Confirmatory License Other 4. Application or patent number(s): This of A. Patent Application No.(s) 13/387,816	Street Address: <u>416, Maetan-dong, Yeongtong-gu</u> City: <u>Suwon-city, Gyeonggi-do</u> State: Country: <u>Republic of Korea</u> Zip: Additional name(s) & address(es) attached? Yes No document is being filed together with a new application. B. Patent No.(s)						
Additional numbers att 5. Name and address to whom correspondence	ached? Yes VNo 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: Gregory L. Clinton	\square Authorized to be charged by credit card						
······	Authorized to be charged by creat card						
Street Address: 1130 Connecticut Ave., NW, Suite 420							
Circer Address. Hoo connectical Ave., NW, Saile 420	None required (government interest not affecting title)						
City: Washington	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: <u>202-403-3587</u>							
Email Address: <u>usdocketing@jeffersonip.com</u>	Authorized User Name						
9. Signature:/Gregory L. CLINTON/ Reg. # Signature	459,134 January 30, 2012 Date						
Gregory L. Clinton	Total number of pages including cover						
Name of Person Signing	sheet, attachments, and documents:						
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							

PATENT REEL: 027616 FRAME: 0477 Additional name and address of receiving parties:

Name: KYUNG HEE UNIVERSITY INDUSTRY ACADEMIC COOPERATION FOUNDATION

Address: 1, Seocheon-dong, Giheung-gu, Yoingin-si, Gyeonggi-do, Republic of Korea

Attorney Docket No.: 0203-0725 Client Docket No.: YPF201006-0019/US_DMC

<u>Assignment</u>

WHEREAS, the following inventors, namely 1) Sung Won LEE, 2) Han Na LIM, and 3) Beom Sik BAE, all citizens of the Republic of Korea and residing respectfully at 1) 1, Hoegi-dong, Dongdaemun-gu, Seoul, Republic of Korea, 2) No. 202, 612-135, Banpo 4-dong, Seocho-gu, Seoul, Republic of Korea, and 3) No. 1001-1803, BangJuk Maeul Yeongtong Tranchae Apt., 707, Mangpodong, Yeongtong-gu, Suwon-si, Gyeonggi-do, 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 OF PROVIDING COMMUNICATION SERVICES FROM WIRELESS COMMUNICATION SYSTEM TO TERMINAL AND APPARATUS THEREFOR,

for which a United States Patent Application is being filed concurrently herewith or, if not being concurrently filed, was filed on January 30, 2012 , and assigned Serial No. 13/387,816 ; and,

WHEREAS, 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, Republic of Korea and Kyung Hee University Industry Academic Cooperation Foundation, a corporation duly organized under the laws of the Republic of Korea, located and doing business at 1, Seocheon-dong, Giheung-gu, Yoingin-si, Gyeonggi-do, Republic of Korea (hereinafter called "Assignees"), are 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 Assignee 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 Assignee's expense:

a. to execute:

- all papers to be used in connection with this application and any divisional, continuing, substitute or reissue application thereof, as the Assignce may deem necessary or expedient, and
- 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;
- to cooperate with the Assignee 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 relssue application thereof;

PATENT REEL: 027616 FRAME: 0479 Atumney Docket No.: 0203-0725 Client Docket No.: YPP201006-0019/US_DMC

- c. to communicate to the Assignee any facts relating to said invention, sold application and any divisional, continuing, substitute or reissue application thereof, including evidence for any interference, it/gotion, mediation, achiration or other proceeding telating to said invention, whenever requested;
- d. to testify in any interference, litigation, mediation, arbitration or other proceeding relating to cald invention, and application and any divisional, continuing, cubstitute or relative application thereof whenever requested; and
- e. to perform all other afformative acts which may be necessary or desirable to accure full and complete protection of the inventions and discoveries or that may be necessary or desirable to vest in Assigned the complete title to the inventions and discoveries and laceveries and to enable. Assigned to necessary or lacet title.

Assignors hereby authorize and request the United States Patent and Trademark Office or any other issuing authority to leade any and all Linters Potent that may be granted upon this invention and/or this application of any divisional, continuing, substitute or reissue application thereof to the Assignee, its legal representatives, successors and assigns.

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

The provisions of this Assignment are binding upon such Assignar's heirs, legal representatives and/or administrators and assigns.

Assignors hereby grant to the law firm of Jefferson IP Law, LLP of Washington, DC and its 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 Investor:	. Jakan Karana Karan	and the
	Sung Won LEE	Date
Signature of Second Inventor:		
	Han Na LIM	Date
Signature of Third Investor:		
	Reom Sik BAE	Date

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Attorney Docket No.: 0203-0725 Client Docket No.: YPF201006-0019/US_DMC

Assignment

WHEREAS, the following inventors, namely 1) Sung Won LEE, 2) Han Na LIM, and 3) Beom Sik BAE, all citizens of the Republic of Korea and residing respectfully at 1) 1, Hoegi-dong, Dongdaemun-gu, Seoul, Republic of Korea, 2) No. 202, 612-135, Banpo 4-dong, Seocho-gu, Seoul, Republic of Korea, and 3) No. 1001-1803, Bangluk Maeul Yeongtong Tranchae Apt., 707, Mangpodong, Yeongtong-gu, Suwon-si, Gyeonggi-do, 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:

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WHEREAS, 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, Republic of Korea and Kyung Hee University Industry Academic Cooperation Foundation, a corporation duly organized under the laws of the Republic of Korea, located and doing business at 1, Seocheon-dong, Giheung-gu, Yoingin-si, Gyeonggi-do, Republic of Korea (hereinafter called "Assignees"), are 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 Assignee 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.

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 - 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;
- to cooperate with the Assignee 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;

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PATENT REEL: 027616 FRAME: 0481

Allorney Docket No.: 0203-0725 Clibrit Docket No.: YPF201005-0019/US_DMC

- c. to communicate to the Assignce 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;
- d. to testify in any interference, litigation, mediation, arbitration or other proceeding relating to said invention, said application and any divisional, continuing, substitute or roissue application thereof whenever requested; and
- c. 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 Assignee the complete title to the inventions and discoveries and Lettern Patent hereby conveyed and to enable Assignee 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 relastic application thereof to the Assignee, its 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 intercat 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 Assigner's heirs, legal representatives and/or administrators and assigns.

Assignors hereby grant to the inw fitm of fefferson IP Law, LLP of Washington, DC and its attorneys and agents as associated with Castomer 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 of a Patent Office of any foreign country.

Signature of First Inventor:

Han Na LIM

<u> Jan 30, 2012.</u> Dais

Date

Signature of Third Inventor:

Signature of Second Inventor:

Sung Wan LEE

San, 20, 2012 Date

Been Sik RAE

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RECORDED: 01/30/2012