502621778 01/06/2014

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT2668387

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT	
NATURE OF CONVEYANCE:	Corrective Assignment to correct the RECEIVING PARTIES. IN ORDER TO ADD AN ADDITIONAL RECEIVING PARTY (2ND ASSIGNEE). previously recorded on Reel 027743 Frame 0197. Assignor(s) hereby confirms the ADDITIONAL RECEIVING PARTY	

CONVEYING PARTY DATA

Name	Execution Date
SONGYEAN CHO	02/21/2012
HEETAE ROH	02/17/2012
JANGWON LEE	02/17/2012
BEOMSIK BAE	02/21/2012
CHAEGWON LIM	02/16/2012
SANGSOO JEONG	02/21/2012

RECEIVING PARTY DATA

Name:	SAMSUNG ELECTRONICS CO., LTD.
Street Address:	129, SAMSUNG-RO, YEONGTONG-GU
City:	SUWON-SI, GYEONGGI-DO
State/Country:	KOREA, REPUBLIC OF

Name:	INDUSTRY-ACADEMIC COOPERATION FOUNDATION, YONSEI UNIVERSITY	
Street Address:	262, SEONGSANNO, SEODAEMUN-GU	
City:	SEOUL	
State/Country:	KOREA, REPUBLIC OF	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13402146

CORRESPONDENCE DATA

Fax Number: (202)403-3587

Email: usdocketing@jeffersonip.com

Correspondence will be sent via US Mail when the email attempt is unsuccessful.

PATENT

502621778 REEL: 031923 FRAME: 0396

Correspondent Name: JEFFERSON IP LAW, LLP Address Line 1: 1130 CONNECTICUT AVE., NW, SUITE 420 WASHINGTON, DISTRICT OF COLUMBIA 20036 Address Line 4: ATTORNEY DOCKET NUMBER: 0203-0761 NAME OF SUBMITTER: DANIEL SCHNEIDER Signature: /Daniel SCHNEIDER/ Date: 01/06/2014 Total Attachments: 13 source=0203-0761CorrectiveAssignmentAsFiled#page1.tif source=0203-0761CorrectiveAssignmentAsFiled#page2.tif source=0203-0761CorrectiveAssignmentAsFiled#page3.tif source=0203-0761CorrectiveAssignmentAsFiled#page4.tif source=0203-0761CorrectiveAssignmentAsFiled#page5.tif source=0203-0761CorrectiveAssignmentAsFiled#page6.tif source=0203-0761CorrectiveAssignmentAsFiled#page7.tif source=0203-0761CorrectiveAssignmentAsFiled#page8.tif source=0203-0761CorrectiveAssignmentAsFiled#page9.tif source=0203-0761CorrectiveAssignmentAsFiled#page10.tif source=0203-0761CorrectiveAssignmentAsFiled#page11.tif source=0203-0761CorrectiveAssignmentAsFiled#page12.tif

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PATENT REEL: 031923 FRAME: 0397 Client Docket No.: YPF201202-0011/US DMC

Assignment

WHEREAS, the following inventors, namely 1) Songyean CHO, 2) Heetae ROH, 3) Jangwon LEE, 4) Beomsik BAE, 5) Chaegwon LIM, and 6) Sangsoo JEONG, all citizens of the Republic of Korea and residing respectfully at 1) No. 103-1704, Gyeongnam Gyosu Apt., Sindaebang 1-dong, Dongjak-gu, Seoul, Republic of Korea, 2) 1779 Bunji, Sangdaewon 3-dong, Jungwon-gu, Seongnam-si, Gyeonggi-do, Republic of Korea, 3) No. 2-804, Jinhung Apt., Seocho 4-dong, Seochogu, Seoul, Republic of Korea, 4) No. 1001-1803, BangJuk Maeul Yeongtong Tranchae Apt., 707 Bunji, Mangpo-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea, 5) No. 302, Roivill Apt., 909-9 Daechi 4-dong, Gangnam-gu, Seoul, Republic of Korea, and 6) No. 503, 2-4, Maesanno 2-ga, Paldal-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:

GROUP-BASED CONTROL METHOD AND APPARATUS FOR MTC DEVICES IN MOBILE COMMUNICATION SYSTEM,

for which a United States Patent Application is being filed concurrently herewith or, if not being concurrently filed, was filed on <u>February 22, 2012</u>, and assigned Scrial No. <u>13/402,146</u>; and,

WHEREAS, Samsung Electronics Co., Ltd., a corporation duly organized under the laws of the Republic of Korea, located and doing business at 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea and Industry-Academic Cooperation Foundation, Yonsei University, a corporation duly organized under the laws of the Republic of Korea, located and doing business at 262, Seongsanno, Seodaemun-gu, Seoul, 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:

- i. all papers to be used in connection with this application and any divisional, continuing, substitute or reissue application thereof, as the Assignee 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;

PATENT REEL: 031923 FRAME: 0398

Client Docket No.: YPF201202-0011/US_DMC

- 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;
- c. to communicate to the Assignee 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;
- 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
- e. 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 Letters 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 reissue 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 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 Assignor'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 Inventor:	不付せ	Feb. 21, 2012
	Songyean CHO	Date
Signature of Second Inventor:		
	Heetae ROH	Date
Signature of Third Inventor:		
	Jangwon LEE	Date
Signature of Fourth Inventor:	July-	Feb. 21, 2012
	Beomsik BAE	Date

Attorney Docket No.: 0203-0761 Client Docket No.: YPF201202-001	1/US_DMC	
Signature of Fifth Inventor:		
	Chaegwon LIM	Date

Signature of Sixth Inventor:

Sangsod JEONG Teb. 21, 2012
Date

3 ~

Client Docket No.: YPF201202-0011/US_DMC

Assignment

WHEREAS, the following inventors, namely 1) Songyean CHO, 2) Heetae ROH, 3) Jangwon LEE, 4) Beomsik BAE, 5) Chaegwon LIM, and 6) Sangsoo JEONG, all citizens of the Republic of Korea and residing respectfully at 1) No. 103-1704, Gyeongnam Gyosu Apt., Sindaebang 1-dong, Dongjak-gu, Seoul, Republic of Korea, 2) 1779 Bunji, Sangdaewon 3-dong, Jungwon-gu, Seongnam-si, Gyeonggi-do, Republic of Korea, 3) No. 2-804, Jinhung Apt., Seocho 4-dong, Seochogu, Seoul, Republic of Korea, 4) No. 1001-1803, BangJuk Maeul Yeongtong Tranchae Apt., 707 Bunji, Mangpo-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea, 5) No. 302, Roivill Apt., 909-9 Daechi 4-dong, Gangnam-gu, Seoul, Republic of Korea, and 6) No. 503, 2-4, Maesanno 2-ga, Paldal-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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PATENT REEL: 031923 FRAME: 0401

Client Docket No.: YPF201202-0011/US_DMC

- 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;
- to communicate to the Assignee 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;
- 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
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Signature of First Inventor:		
	Songyean CHO	Date
Signature of Second Inventor:	Hectae ROH	Feb. 11, 2012
Signature of Third Inventor:	Jangwon LEE	Feb. 11, 20/2 Date
Signature of Fourth Inventor:		
	Beomsik BAE	Date

Client Docket No.: YPF201202-001	I/US_DMC	
Signature of Fifth Inventor:	Chaegwon UM	Date
Signature of Sixth Inventor:	Chargaon Again.	2
	Sangsoo JEONG	Date

- 3 -

Client Docket No.: YPF201202-0011/US_DMC

Assignment

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- 1 -

Client Docket No.: YPF201202-0011/US DMC

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Signature of First Inventor:	•	
	Songyean CHO	Date
Signature of Second Inventor:		
	Heetae ROH	Date
Signature of Third Inventor:		
	Jangwon LEE	Date
Signature of Fourth Inventor:		•
	Beomsik BAE	Date

2 -

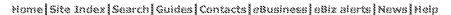
Signature of Fifth Inventor:	Chaegwon IM	16/2/2012 Date
Signature of Sixth Inventor:	Sangsoo JEONG	Date

Attorney Docket No.: 0203-0761 Client Docket No.: YPF201202-0011/US_DMC

- 3 -



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	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Songyean CHO	02/21/2012
Heetae ROH	02/17/2012
Jangwon LEE	02/17/2012
Beomsik BAE	02/21/2012
Chaegwon LIM	02/16/2012
Sangsoo JEONG	02/21/2012

RECEIVING PARTY DATA

Name:	SAMSUNG ELECTRONICS CO., LTD.	
Street Address:	129, Samsung-ro, Yeongtong-gu	
City:	Suwon-si, Gyeonggi-do	
State/Country:	REPUBLIC OF KOREA	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13402146

CORRESPONDENCE DATA

(202)403-3587 Fax Number: 202-293-0804 Phone: Email: usdocketing@jeffersonip.com Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail. Correspondent Name: Jefferson IP Law, LLP Address Line 1: 1130 Connecticut Ave., NW Address Line 2: Suite 420 Address Line 4: Washington, DISTRICT OF COLUMBIA 20036 ATTORNEY DOCKET 0203-0761 **NUMBER:** NAME OF SUBMITTER: Raymond B. Persino Signature: /Raymond B. PERSINO/ Date: 02/22/2012 **Total Attachments: 11** source=0203-0761AssignmentAsFiled#page1.tif source=0203-0761AssignmentAsFiled#page2.tif

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 02/22/2012

 Fee Amount:
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