

PATENT ASSIGNMENT

Electronic Version v1.1
Stylesheet Version v1.1

SUBMISSION TYPE:

NEW ASSIGNMENT

NATURE OF CONVEYANCE:

ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Sung Won LEE	05/21/2013
Han Na LIM	06/05/2013
Beom Sik BAE	06/05/2013
Song Yean CHO	06/05/2013

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:	KYUNG HEE UNIVERSITY INDUSTRY ACADEMIC COOPERATION FOUNDATION
Street Address:	1, Seocheon-dong, Gigeung-gu,
City:	Yongin-si, Gyeonggi-do
State/Country:	KOREA, REPUBLIC OF

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13992477

CORRESPONDENCE DATA

Fax Number:

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

Phone: 202-293-0804

Email: usdocketing@jeffersonip.com

Correspondent Name: Jefferson IP Law

Address Line 1: 1130 Connecticut Ave., NW

Address Line 2: Suite 420

Address Line 4: Washington, DISTRICT OF COLUMBIA 20036

OP \$40.00 13992477

502376472

PATENT
REEL: 030568 FRAME: 0666

ATTORNEY DOCKET NUMBER:	0203-1103
NAME OF SUBMITTER:	Raymond B. Persino
Signature:	/Raymond B. PERSINO/
Date:	06/07/2013
<p>Total Attachments: 6 source=0203-1103AssignmentAsFiled#page1.tif source=0203-1103AssignmentAsFiled#page2.tif source=0203-1103AssignmentAsFiled#page3.tif source=0203-1103AssignmentAsFiled#page4.tif source=0203-1103AssignmentAsFiled#page5.tif source=0203-1103AssignmentAsFiled#page6.tif</p>	

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)

1) Sung Won LEE, 2) Han Na LIM, 3) Beom Sik BAE, and
4) Song Yean CHO

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance/Execution Date(s):

Execution Date(s) May 21, 2013 and June 5, 2013

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Joint Research Agreement
☐ Government Interest Assignment
☐ Executive Order 9424, Confirmatory License
☐ Other _____

2. Name and address of receiving party(ies)

Name: Samsung Electronics Co., Ltd.

Internal Address: _____

Street Address: 129, Samsung-ro, Yeongtong-gu

City: Suwon-si, Gyeonggi-do

State: _____

Country: Republic of Korea Zip: _____

Additional name(s) & address(es) attached? ☒ Yes ☐ No

4. Application or patent number(s):

☐ This document is being filed together with a new application.

A. Patent Application No.(s)
13/992,477

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address to whom correspondence concerning document should be mailed:

Name: Jefferson IP Law, LLP

Internal Address: Raymond B. Persino

Street Address: 1130 Connecticut Ave., NW, Suite 420

City: Washington

State: District of Columbia Zip: 20036

Phone Number: 202-293-0804

Fax Number: 202-403-3587

Email Address: usdocketing@jeffersonip.com

6. Total number of applications and patents involved: One

7. Total fee (37 CFR 1.21(h) & 3.41) \$ _____

- ☐ Authorized to be charged by credit card
☐ Authorized to be charged to deposit account
☐ Enclosed
☐ None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers _____
Expiration Date _____

b. Deposit Account Number _____

Authorized User Name _____

9. Signature:

/Raymond B. PERSINO/ Reg. #58,082

Signature

June 7, 2013

Date

Raymond B. Persino

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

6

Additional name and address of receiving parties:

Name: **KYUNG HEE UNIVERSITY INDUSTRY
ACADEMIC COOPERATION FOUNDATION**

Address: **1, Seocheon-dong, Gigeung-gu, Yongin-si, Gyeonggi-do,
Republic of Korea**

Assignment

WHEREAS, the following inventors, namely 1) Sung Won LEE, 2) Han Na LIM, 3) Beom Sik BAE, and 4) Song Yeon CHO, all citizens of the Republic of Korea and residing respectfully at 1) 1, Seocheon-dong, Gigeung-gu, Yongin-si, Gyeonggi-do, Republic of Korea, 2) No.202, 612-135, Banpo 4-dong, Seocho-gu, Seoul, Republic of Korea, 3) NO.1001-1803, BangJuk Maeul Yeongtong Tranchae Apt., 707, Mangpo-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea, and 4) No.103-1704, Gyeongnam Gyosu Apt., Sindaebang 1-dong, Dongjak-gu, Seoul, 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 AND APPARATUS FOR RELIABLY TRANSMITTING GROUP MULTICAST USING A CELL BROADCASTING TECHNIQUE IN A MOBILE COMMUNICATION SYSTEM,

for which a United States Patent Application is being filed concurrently herewith or, if not being concurrently filed, was filed on June 7, 2013, and assigned Serial No. 13/992,477; 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 **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, Gigeung-gu, Yongin-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 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;
- d. 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 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, 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:  21 May 2013
Sung Won LEE Date

Signature of Second Inventor: _____
Han Na LIM Date

Signature of Third Inventor: _____
Beom Sik BAE Date

Signature of Fourth Inventor: _____
Song Yeon CHO Date

Assignment

WHEREAS, the following inventors, namely 1) Sung Won LEE, 2) Han Na LIM, 3) Beom Sik BAE, and 4) Song Yeon CHO, all citizens of the Republic of Korea and residing respectfully at 1) 1, Seocheon-dong, Gigeung-gu, Yongin-si, Gyeonggi-do, Republic of Korea, 2) No.202, 612-135, Banpo 4-dong, Seocho-gu, Seoul, Republic of Korea, 3) NO.1001-1803, BangJuk Maeul Yeongtong Tranchae Apt., 707, Mangpo-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea, and 4) No.103-1704, Gyeongnam Gyosu Apt., Sindaebang 1-dong, Dongjak-gu, Seoul, 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 AND APPARATUS FOR RELIABLY TRANSMITTING GROUP MULTICAST USING A CELL BROADCASTING TECHNIQUE IN A MOBILE COMMUNICATION SYSTEM,

for which a United States Patent Application is being filed concurrently herewith or, if not being concurrently filed, was filed on June 7, 2013, and assigned Serial No. 13/992,477; 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 **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, Gigeung-gu, Yongin-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 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;
- d. 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 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, 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:

Sung Won LEE

Date

Signature of Second Inventor:

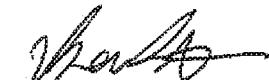


Han Na LIM

June 5, 2013

Date

Signature of Third Inventor:



Beom Sik BAE

June 5, 2013

Date

Signature of Fourth Inventor:



Song Yeon CHO

June 5, 2013

Date