

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>Jungsoo JUNG</td> <td>04/25/2012</td> </tr> <tr> <td>Youngyong KIM</td> <td>04/25/2012</td> </tr> <tr> <td>Woojin AHN</td> <td>04/25/2012</td> </tr> <tr> <td>Gangjin YOON</td> <td>04/25/2012</td> </tr> </tbody> </table>		Name	Execution Date	Jungsoo JUNG	04/25/2012	Youngyong KIM	04/25/2012	Woojin AHN	04/25/2012	Gangjin YOON	04/25/2012
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RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>SAMSUNG ELECTRONICS CO., LTD.</td> </tr> <tr> <td>Street Address:</td> <td>129, Samsung-ro, Yeongtong-gu</td> </tr> <tr> <td>City:</td> <td>Suwon-si, Gyeonggi-do</td> </tr> <tr> <td>State/Country:</td> <td>KOREA, REPUBLIC OF</td> </tr> </table>		Name:	SAMSUNG ELECTRONICS CO., LTD.	Street Address:	129, Samsung-ro, Yeongtong-gu	City:	Suwon-si, Gyeonggi-do	State/Country:	KOREA, REPUBLIC OF		
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<table border="1"> <tr> <td>Name:</td> <td>INDUSTRY-ACADEMIC COOPERATION FOUNDATION, YONSEI UNIVERSITY</td> </tr> <tr> <td>Street Address:</td> <td>262</td> </tr> <tr> <td>Internal Address:</td> <td>Seongsanno, Seodaemun-gu</td> </tr> <tr> <td>City:</td> <td>Seoul</td> </tr> <tr> <td>State/Country:</td> <td>KOREA, REPUBLIC OF</td> </tr> </table>		Name:	INDUSTRY-ACADEMIC COOPERATION FOUNDATION, YONSEI UNIVERSITY	Street Address:	262	Internal Address:	Seongsanno, Seodaemun-gu	City:	Seoul	State/Country:	KOREA, REPUBLIC OF
Name:	INDUSTRY-ACADEMIC COOPERATION FOUNDATION, YONSEI UNIVERSITY										
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PROPERTY NUMBERS Total: 1											
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13463239</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13463239						
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Application Number:	13463239										
CORRESPONDENCE DATA											
Fax Number:	(202)403-3587										
Phone:	202-293-0804										
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										

OP \$40.00 13463239

Address Line 2: Suite 420
Address Line 4: Washington, DISTRICT OF COLUMBIA 20036

ATTORNEY DOCKET NUMBER: 0203-0832

NAME OF SUBMITTER: George C. Eckert

Total Attachments: 6
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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) Jungsoo JUNG, 2) Youngyong KIM, 3) Woojin AHN and
4) Gangjin YOON

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

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

Execution Date(s) April 25, 2012

- ☒ 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)

13/463,239

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: George Eckert

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

City: Washington

State: DC 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:

/George C. ECKERT/ Reg. No. 58,892

Signature

May 3, 2012

Date

George C. Eckert

Name of Person Signing

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

6

Additional name and address of receiving parties:

Name: INDUSTRY-ACADEMIC COOPERATION
FOUNDATION, YONSEI UNIVERSITY

Address: 262, Seongsanno, Seodaemun-gu, Seoul, Republic of
Korea

Assignment

WHEREAS, the following inventors, namely 1) Jungsoo JUNG, 2) Youngyong KIM, 3) Woojin AHN, and 4) Gangjin YOON, all citizens of the Republic of Korea and residing respectfully at 1) No. 922-1002, PangyowonMaeul Hanlim Fullever Apt., Pangyo-dong, Bundang-gu, Seongnam-si, Gyeonggi-do, Republic of Korea, 2) No. 121-503, Banpo Xi Apt., Banpo 1-dong, Seocho-gu Seoul, Republic of Korea, 3) Fl. 3, 217-11, Gusan-dong, Eunpyeong-gu, Seoul, Republic of Korea, and 4) 209-120, Singil 4-dong, Yeongdeungpo-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:

DELAYED ACKNOWLEDGEMENT TRANSMISSION METHOD AND APPARATUS 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 May 3, 2012, and assigned Serial No. 13/463,239; 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**, located and doing business at 262, Seongsanno, Seodaemun-gu, Seoul, 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 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;
- b. 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;
- 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 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:


Jungsoo JUNG

April 25, 2012
Date

Signature of Second Inventor:

Youngyong KIM

Date

Signature of Third Inventor:

Woojin AHN

Date

Signature of Fourth Inventor:

Gangjin YOON

Date

Assignment

WHEREAS, the following inventors, namely 1) Jungsoo JUNG, 2) Youngyong KIM, 3) Woojin AHN, and 4) Gangjin YOON, all citizens of the Republic of Korea and residing respectfully at 1) No. 922-1002, PangyowonMaeul Hanlim Fullever Apt., Pangyo-dong, Bundang-gu, Seongnam-si, Gyeonggi-do, Republic of Korea, 2) No. 121-503, Banpo Xi Apt., Banpo 1-dong, Seocho-gu Seoul, Republic of Korea, 3) Fl. 3, 217-11, Gusan-dong, Eunpyeong-gu, Seoul, Republic of Korea, and 4) 209-120, Singil 4-dong, Yeongdeungpo-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:

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- b. 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;
- 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
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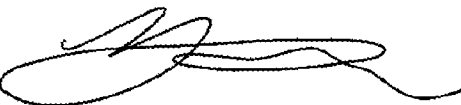
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Signature of First Inventor:

Jungsoo JUNG

Date

Signature of Second Inventor:



Youngyong KIM

April 25, 2012

Date

Signature of Third Inventor:

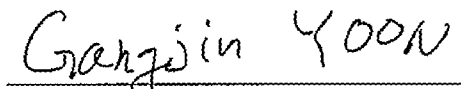
Woojin AHN

Woojin AHN

April 25, 2012

Date

Signature of Fourth Inventor:



Gangjin YOON

April 25, 2012

Date