

PATENT ASSIGNMENT

Electronic Version v1.1
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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>Yong-Won SHIN</td> <td>02/08/2012</td> </tr> <tr> <td>Jong-Han LIM</td> <td>02/13/2012</td> </tr> <tr> <td>In-Hyoung KIM</td> <td>02/08/2012</td> </tr> </tbody> </table>		Name	Execution Date	Yong-Won SHIN	02/08/2012	Jong-Han LIM	02/13/2012	In-Hyoung KIM	02/08/2012
Name	Execution Date								
Yong-Won SHIN	02/08/2012								
Jong-Han LIM	02/13/2012								
In-Hyoung KIM	02/08/2012								
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									
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13390171</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13390171				
Property Type	Number								
Application Number:	13390171								
CORRESPONDENCE DATA									
Fax Number:	(202)403-3587								
Phone:	202-293-0804								
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<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>									
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 NUMBER:	0202-0658								
NAME OF SUBMITTER:	Raymond B. Persino								
Total Attachments: 3 source=0202-0658AssignmentAsFiled#page1.tif source=0202-0658AssignmentAsFiled#page2.tif source=0202-0658AssignmentAsFiled#page3.tif									

OP \$40.00 13390171

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) Yong-Won SHIN, 2) Jong-Han LIM, and 3) In-Hyoung KIM

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

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

3. Nature of conveyance/Execution Date(s):
 Execution Date(s) February 8, 2012, February 13, 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 document is being filed together with a new application.

A. Patent Application No.(s)
13/390,171

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 _____ March 5, 2012
 Signature Date

Raymond B. Persino
 Name of Person Signing

Total number of pages including cover sheet, attachments, and documents: 3

Assignment

WHEREAS, the following inventors, namely 1) **Yong-Won SHIN**, 2) **Jong-Han LIM**, and 3) **In-Hyoung KIM**, all citizens of the Republic of Korea and residing respectfully at 1) #945-1803, Byeokjeokgol 9 Danji APT, Yeongtong 2-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do 443-726, Republic of Korea, 2) #102-506, Yeoksam Lucky APT, Dogok-dong 963, Gangnam-gu, Seoul 135-858, Republic of Korea, and 3) #305-1201, Dongwon Royal Deuk, Bojeong-dong, Giheung-gu, Yongin-si, Gyeonggi-do 446-976, 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:

APPARATUS AND METHOD FOR RECEIVING MULTIPLE FREQUENCY ALLOCATIONS (FAS) 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 March 5, 2012, and assigned Serial No. 13/390,171; 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 (hereinafter called "Assignee"), 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;

