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PATENT ASSIGNMENT COVER SHEET

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| CONVEYING PARTY | DATA | | 1 | | |
| | | 1 | Name | Execution Date | |
| DAE-GEUN PARK | | | 10/07/2013 | | |
| HAN-NAH KIM | | | | 10/07/2013 | |
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| Property Type Application Number: 1 | | 14047 | Number 14047543 | | |
| Application Number. | | 14047 | J43 | | |
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PATENT REEL: 031357 FRAME: 0099

Total Attachments: 2

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U.S. rights

UNITED STATES OF AMERICA ASSIGNMENT

In consideration of the payment of ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for the other good and valuable consideration,

ASSIGNOR(S):

Dae-Geun PARK of 510-702 Expo Apt., Jeonmin-dong, Yuseong-gu, Daejeon-si, Republic of Korea; Han-Nah KIM of 101-409 Sincheonji Apt., Yongdeok-ri, Ocheon-eup, Nam-gu, Pohang-si, Gyeongsangbuk-do, Republic of Korea

hereby sells, assigns and transfers to

ASSIGNEE:

ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE

161, Gajeong-dong, Yuseong-gu, Daejeon-si, 305-700 Republic of Korea;

and the successors, assigns and legal representatives of the ASSIGNEE the entire right, title and interest for the United States and its territorial possessions in and to, any and all improvements which are disclosed in the Application entitled

TITLE: <u>APPARATUS AND METHOD FOR PROVIDING MULTICAST AND BROADCAST SERVICE IN MOBILE COMMUNICATION ENVIRONMENT</u>

which application was

| \boxtimes | (a) executed by the undersigned on | · | |
|-------------|------------------------------------|----|--|
| | (b) filed as Serial No. | on | |

and, in and to all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, substitute, reissue or re-examination thereof.

ASSIGNOR hereby covenants that no assignment, sale agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale;

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference or litigation related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

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IN WITNESS WHEREOF, we have set our hand and seal

01-10-20/3 Date

Dae-Geun PARK

07-10-2013

Date

Han-Nah KIM

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