

# PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
<b>CONVEYING PARTY DATA</b>													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Kyung-sook KIM</td> <td>10/19/2009</td> </tr> <tr> <td>Jae-sheung SHIN</td> <td>10/20/2009</td> </tr> <tr> <td>Hyun-seo PARK</td> <td>10/20/2009</td> </tr> <tr> <td>Young-jick BAHG</td> <td>10/20/2009</td> </tr> <tr> <td>Yeon-seung SHIN</td> <td>10/20/2009</td> </tr> </tbody> </table>		Name	Execution Date	Kyung-sook KIM	10/19/2009	Jae-sheung SHIN	10/20/2009	Hyun-seo PARK	10/20/2009	Young-jick BAHG	10/20/2009	Yeon-seung SHIN	10/20/2009
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<b>CORRESPONDENCE DATA</b>													
<p>Fax Number: (202)659-8822</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 2026598000</p> <p>Email: jpark@kgrmlaw.com</p> <p>Correspondent Name: Jae Y. Park</p> <p>Address Line 1: Kile, Goekjian, Reed &amp; McManus, PLLC</p> <p>Address Line 2: 1200 New Hampshire Ave. NW, Suite 570</p> <p>Address Line 4: Washington, DISTRICT OF COLUMBIA 20036</p>													
ATTORNEY DOCKET NUMBER:	SNJ-0011-ET												
NAME OF SUBMITTER:	JAE Y. PARK												

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**PATENT**  
REEL: 023435 FRAME: 0781

Total Attachments: 2

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UNITED STATES PATENT RIGHTS, OR  
UNITED STATES PLUS ALL FOREIGN PATENT RIGHTS

**ASSIGNMENT**

**Insert Name(s)  
and Address(es)** WHEREAS, Kyung-sook KIM of 106-906 Hanul Apt., Sinseong-dong, Yuseong-gu, Daejeon-si, Republic of Korea;  
**of Inventor(s)** Jae-sheung SHIN of 206-1205 Expo Apt., Jeonmin-dong, Yuseong-gu, Daejeon-si, Republic of Korea;  
Hyun-seo PARK of 104-1701 Songnim Maeul, Hagi-dong, Yuseong-gu, Daejeon-si, Republic of Korea;  
Young-jick BAHG of 126-3, Sinseong-dong, Yuseong-gu, Daejeon-si, Republic of Korea;  
Yeon-seung SHIN of 117-1104 Hanbit Apt., Eoeun-dong, Yuseong-gu, Daejeon-si, Republic of Korea;  
(hereinafter designated as the undersigned) has (have) invented certain new and useful improvements in

**Insert Title  
of Invention** PHYSICAL DOWNLINK CONTROL CHANNEL RESOURCE-BASED SCHEDULING METHOD AND APPARATUS USED BY  
BASE STATION

which claims priority to [*Republic of Korea*] Application No(s). 10-2008-0130630, filed on December 19, 2008,  
and for which the undersigned is (are) about to file an application for Letters Patent of the United States;  
and

**Insert Name  
of Assignee** WHEREAS, Electronics and Telecommunications Research Institute

**Insert Address  
of Assignee** of 161 Gajeong-dong, Yuseong-gu, Daejeon-si, 305-700 Republic of Korea

its heirs, successors, legal representatives and assigns (hereinafter designated as the Assignee) is desirous of  
acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent(s) that  
may be granted therefor in the United States of America and in any foreign countries.

NOW, THEREFORE, to all whom it may concern, be it known that, for good and valuable consideration  
paid to the undersigned, the receipt of which is hereby acknowledged, the undersigned has (have) sold,  
assigned and transferred, and by these presents does sell, assign and transfer unto the Assignee the full and  
exclusive right to the said invention in the United States of America, its territories, dependencies and  
possessions and the entire right, title and interest in and to any and all Letters Patent(s) which may be  
granted therefor in the United States of America, its territories, dependencies and possessions, and in any  
and all foreign countries;

and to any and all divisions, reissues, continuations, conversions and extensions thereof for the full term or  
terms for which the same may be granted.

The undersigned agree(s) to execute all papers necessary in connection with this application and any  
continuing, divisional, conversion or reissue applications thereof and also to execute separate assignments  
in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree (s) to execute all papers necessary in connection with any interference which may be  
declared concerning this application or continuation, division, conversion or reissue thereof or Letter  
Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in  
obtaining and producing evidence and proceeding with such interference.

The undersigned agree(s) to execute all papers and documents and to perform any act which may be  
necessary in connection with claims or provisions of the International Convention for the Protection of  
Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States of America patent(s) or a grant of a valid United States of America and any foreign patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorize(s) and request(s) the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patents resulting from said application or any continuing, divisional conversion or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) the full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned declare that all statements made herein of his own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Name of Inventor: Kyung-sook KIM, Signature Kyung-sook KIM, Date October / 19 / 2009

Name of Inventor: Jae-sheung SHIN, Signature Jae-sheung SHIN, Date Oct. 20. 2009

Name of Inventor: Hyun-seo PARK, Signature Hyun-seo Park, Date Oct. 20. 2009

Name of Inventor: Young-jick BAHG, Signature Young-jick BAHG, Date Oct. 20. 2009

Name of Inventor: Yeon-seung SHIN, Signature Yeon S. Shin, Date Oct. 20. 2009