

PATENT ASSIGNMENT

Electronic Version v1.1

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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<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>Yong Su LEE</td> <td>11/09/2009</td> </tr> <tr> <td>Young-il KIM</td> <td>11/09/2009</td> </tr> <tr> <td>Wenbo WANG</td> <td>11/09/2009</td> </tr> <tr> <td>Zheng KAN</td> <td>11/09/2009</td> </tr> </tbody> </table>		Name	Execution Date	Yong Su LEE	11/09/2009	Young-il KIM	11/09/2009	Wenbo WANG	11/09/2009	Zheng KAN	11/09/2009
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CORRESPONDENCE DATA											
<p>Fax Number: (202)434-1501</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 202-434-1500</p> <p>Email: ahickling@s-n-h.com</p> <p>Correspondent Name: STAAS & HALSEY LLP</p> <p>Address Line 1: SUITE 700</p> <p>Address Line 2: 1201 NEW YORK AVENUE, N.W.</p> <p>Address Line 4: WASHINGTON, DISTRICT OF COLUMBIA 20005</p>											
ATTORNEY DOCKET NUMBER:	2033.1080										
NAME OF SUBMITTER:	J. Randall Beckers										
Total Attachments: 1											

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PATENT
REEL: 023508 FRAME: 0901

Docket No. 2033.1080

U.S. ASSIGNMENT

SAH 1/00

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter, "ASSIGNOR") by
(Insert Name(s) & Address(es) of ASSIGNEE(S))

ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE

161, Gajeong-dong, Yuseong-gu, Daejeon 305-350, Republic of Korea

(hereinafter, "ASSIGNEE"), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the invention entitled
(Title of Invention)

CHANNEL ESTIMATING METHOD IN WIRELESS COMMUNICATION SYSTEM AND APPARATUS THEREOF

relating to International Patent Application _____ and/or for which
application for Letters Patent of the United States was executed on even date herewith or, if not so executed, was:

(a) executed on ;

(Insert date of execution of application, if not concurrent)

(b) filed on ,

Serial No. ;

Any registered attorney of STAAS & HALSEY LLP, 1201 New York Avenue, N.W., Suite 700 Washington, D.C. 20005 (202/434-1500) is hereby authorized to insert in (b) the specified data, when known.

and to said application and all Letters Patent(s) of the United States granted on said application and any continuation, division, renewal, substitute, reissue or reexamination application based thereon, for the full term or terms for which the said Letters Patent(s) may be granted and including any extensions thereof (collectively, hereinafter, "said application(s) and Letters Patent(s)").

The ASSIGNOR agree(s), when requested by said ASSIGNEE and without charge to but at the expense of said ASSIGNEE, to do all acts which the ASSIGNEE may deem necessary, desirable or expedient, for securing, maintaining and enforcing protection for said invention, including in the preparation and prosecution of said application(s) and the issuance of said Letters Patent(s), in any interference, reissue, reexamination, or public use proceeding, and in any litigation or other legal proceeding which may arise or be declared in relation to same, such acts to include but not be limited to executing all papers, including separate assignments and declarations, taking all rightful oaths, providing sworn testimony, and obtaining and producing evidence.

IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).

	(Typed Name & Signature of Inventor(s))	(Date)	(Typed Name & Signature of Witness(es))
1)	<u>Yong Su Lee</u> Yong Su LEE	Nov. 9, 2009	
2)	<u>Young il Kim</u> Young il KIM	Nov. 9, 2009	
3)	<u>Wenbo Wang</u> Wenbo WANG	Nov. 9, 2009	
4)	<u>Zheng Kan</u> Zheng KAN	Nov. 9, 2009	

PATENT**RECORDED: 11/12/2009****REEL: 023508 FRAME: 0903**