

PATENT ASSIGNMENT

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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>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Minho CHEONG</td> <td>12/02/2008</td> </tr> <tr> <td>Sok-Kyu LEE</td> <td>12/02/2008</td> </tr> <tr> <td>Seung-Chan BANG</td> <td>12/02/2008</td> </tr> <tr> <td>Il-Gu LEE</td> <td>12/02/2008</td> </tr> </tbody> </table>		Name	Execution Date	Minho CHEONG	12/02/2008	Sok-Kyu LEE	12/02/2008	Seung-Chan BANG	12/02/2008	Il-Gu LEE	12/02/2008
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RECEIVING PARTY DATA											
Name:	Electronics and Telecommunications Research Institute										
Street Address:	161, Gajeong-dong, Yuseong-gu										
City:	Daejeon										
State/Country:	REPUBLIC OF KOREA										
Postal Code:	305-350										
PROPERTY NUMBERS Total: 1											
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12332001</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12332001						
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Application Number:	12332001										
CORRESPONDENCE DATA											
Fax Number:	(860)286-0115										
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NAME OF SUBMITTER:	Jae Y. Park										
Total Attachments: 2											

CH \$40.00 12332001

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**PATENT
 REEL: 021956 FRAME: 0793**

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ASSIGNMENT

WHEREAS We, **CHEONG, Minho** of #2-304 ETRI Dormitory, Gajeong-dong, Yuseong-gu, Daejeon 305-700, Republic of Korea, **LEE, Sok-Kyu** of #101-1102 Narae Apt., Jeonmin-dong, Yuseong-gu, Daejeon 305-390, Republic of Korea, **BANG, Seung-Chan** of #111-1102 Nuri Apt., Wolpyeong-dong, Seo-gu, Daejeon 302-280, Republic of Korea and **LEE, Il-Gu** of 91-112, Sinscol-dong, Dongdaemun-gu, Seoul 130-811, Republic of Korea (hereinafter referred to as "ASSIGNORS"); have invented certain new and useful improvements in:

APPARATUS AND METHOD FOR CHANNEL ESTIMATION IN MIMO SYSTEMS

which claims priorities to **Korean** Application No. 10-2007-0128377, filed on December 11, 2007, **Korean** Application No. 10-2008-0079426, filed on August 13, 2008 and for which We are about to file an application for Letters Patent of the United States:


AND WHEREAS, **ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE** (hereinafter referred to as "ASSIGNEE"), a corporation organized and existing under the laws of the Country of **Republic of Korea** having a place of business at **161, Gajeong-dong, Yuseong-gu, Daejeon 305-350, Republic of Korea** is desirous of acquiring an interest in the United States and all foreign countries, in and to the said invention and Letters Patent to be obtained therefor:

NOW THEREFORE, TO ALL WHOM IT MAY CONCERN, be it known that, for good and valuable consideration, the receipt of which is hereby acknowledged, We, the said ASSIGNORS have assigned and transferred, and hereby assign and transfer unto the said ASSIGNEE, the entire right, title and interest in and to said invention in the United States and in all foreign countries, including priority rights, as fully set forth and described in said application; and We do hereby authorize and request the Commissioner of Patents to issue said Letters Patent on said application, and any and all Letters Patent that may be issued upon any and all revivals, refillings, continuations, continuations-in-part, divisions and reissues thereof, to the said ASSIGNEE, an assignee of the entire right, title and interest in and to the same, for the sole use and behoof of ASSIGNEE, its successors and assigns; and We do hereby agree that the said ASSIGNEE, may apply for foreign Letters Patent on said invention and that We

will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by the said ASSIGNEE, its successors or assigns, and that We will, at the cost and expense of the said ASSIGNEE fully assist and cooperate in all matters in connection with the United States and foreign applications and patents issuing thereon.

The undersigned declare that all statements made herein of their 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.

Date: 02/12/2008



CHEONG, Minh L.S.

Date: 02/12/2008



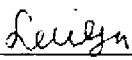
LEE, Sok-Kyu L.S.

Date: 04/12/2008



BANG, Seung-Chan L.S.

Date: 02/12/2008



LEE, Il-Gu L.S.