

## PATENT ASSIGNMENT

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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>Kyu Min KANG</td> <td>05/02/2013</td> </tr> <tr> <td>Sang In CHO</td> <td>05/02/2013</td> </tr> <tr> <td>Jae Cheol PARK</td> <td>05/10/2013</td> </tr> <tr> <td>Byung Jang JEONG</td> <td>05/10/2013</td> </tr> </tbody> </table>		Name	Execution Date	Kyu Min KANG	05/02/2013	Sang In CHO	05/02/2013	Jae Cheol PARK	05/10/2013	Byung Jang JEONG	05/10/2013
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Kyu Min KANG	05/02/2013										
Sang In CHO	05/02/2013										
Jae Cheol PARK	05/10/2013										
Byung Jang JEONG	05/10/2013										
RECEIVING PARTY DATA											
Name:	Electronics and Telecommunications Research Institute										
Street Address:	161 Gajeong-dong, Yuseong-gu										
City:	Daejeon										
State/Country:	KOREA, REPUBLIC OF										
Postal Code:	305-700										
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>13898863</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13898863						
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Application Number:	13898863										
CORRESPONDENCE DATA											
Fax Number:	6177424214										
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Signature:	/EuiHoon Lee/										

Date:

05/21/2013

Total Attachments: 2

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IP20121619 (OP12-0326-US)

**ASSIGNMENT**

I/We, Kyu Min KANG, Sang In CHO, and Byung Jang JEONG, residents of Daejeon, Republic of Korea and Jae Cheol PARK, a resident of Gyeonggi-do, Republic of Korea, in consideration of One Dollar and other valuable consideration paid to me/us by

**Electronics and Telecommunications Research Institute**

having its principal place of business at **161, Gajeong-dong, Yuseong-gu, Daejeon 305-700, Republic of Korea**, the receipt of which is hereby acknowledged, do hereby sell, assign and transfer unto said

**Electronics and Telecommunications Research Institute**

its successors and assigns, the entire interest for the United States of America and all foreign countries including all rights of priority under the International Convention for the Protection of Industrial Property in a certain invention or improvement in

**APPARATUS AND METHOD OF CALCULATING AVAILABLE CHANNELS  
CONSIDERING PRIORITY IN TVWS**

described in an application

executed by me/us of even date herewith and about to be filed

or

serial No. \_\_\_\_\_, filed on \_\_\_\_\_

in the United States Patent and Trademark Office, and in all Letters Patent of the United States and all foreign countries which may or shall be granted on said invention, or any parts thereof, or on said application, or any divisional, continuing, reissue or other applications based in whole or in part thereon.

And I/we agree, for myself/ourselves and my/our executor(s) and administrator(s), with said assignee and its successors and assigns but at its or their expense and charges, hereafter to execute all applications, amended specifications, deed or other instrument, and to do all acts necessary or proper to secure the grant of Letters Patent in the United States and in all other countries to said assignee, with specifications and claims in such form as shall be approved by the counsel of said assignee and to vest and confirm in said assignee, its successors and assigns, the legal title to all such patents.

And I/we do hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said assignee, its successors and assigns.

And I/we do further hereby grant the attorneys/agents of **Nelson Mullins Riley and Scarborough LLP**, One Post Office Square, Boston, Massachusetts 02109, the power to insert on this Assignment the filing date and/or application number of said application.

IP20121619 (OP12-0326-US)

By:   
Kyu Min KANG

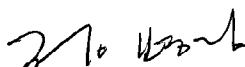
Date: 2013/05/02

By:   
Sang In CHO

Date: 2013.05.02

By:   
Jae Cheol PARK

Date: May 10, 2013

By:   
Byung Jang JEONG

Date: May 10, 2013