

## PATENT ASSIGNMENT

Electronic Version v1.1  
Stylesheet Version v1.1

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>Jae-Hyun SEO</td><td>05/20/2011</td></tr><tr><td>Hyoungsoo LIM</td><td>05/20/2011</td></tr><tr><td>Heung-Mook KIM</td><td>05/20/2011</td></tr><tr><td>Soo-In LEE</td><td>05/20/2011</td></tr></tbody></table>	Name	Execution Date	Jae-Hyun SEO	05/20/2011	Hyoungsoo LIM	05/20/2011	Heung-Mook KIM	05/20/2011	Soo-In LEE	05/20/2011	
Name	Execution Date										
Jae-Hyun SEO	05/20/2011										
Hyoungsoo LIM	05/20/2011										
Heung-Mook KIM	05/20/2011										
Soo-In LEE	05/20/2011										
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"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>13132221</td></tr></tbody></table>	Property Type	Number	Application Number:	13132221							
Property Type	Number										
Application Number:	13132221										
CORRESPONDENCE DATA											
Fax Number: (202)434-1501 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone: 2024341500											
Email: jgilman@s-n-h.com											
Correspondent Name: Staas and Halsey, LLP											
Address Line 1: 1201 New York Ave, NW											
Address Line 2: Suite 700											
Address Line 4: Washington, DISTRICT OF COLUMBIA 20005											
ATTORNEY DOCKET NUMBER:	2044.1073										
NAME OF SUBMITTER:	J. Randall Beckers										
Total Attachments: 2 source=37X3827-assignment#page1.tif source=37X3827-assignment#page2.tif											

OP \$40.00 13132221

501551993

PATENT  
REEL: 026377 FRAME: 0686

Application Reference No. IP20081399A

Our Docket No.:

## U.S. ASSIGNMENT

5/11/11

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 in the invention entitled

(Title of Invention)

APPARATUS AND METHOD FOR CONTROLLING INFRASTRUCTURE BASED ON BROADCASTING SIGNALS

relating to International Patent Application PCT/KR2009/007174, 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 : even date herewith

(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) Jae Hyun Seo  
SEO, Jae-Hyun

20 May 2011

H.E. Kwon  
Hye-Eun KWON

2) Hyoungsoo Lim  
LIM, Hyoungsoo

20 May 2011

H.E. Kwon  
Hye-Eun KWON

3) Hyoung Mook Kim  
KIM, Hyoung-Mook

May 20, 2011

H.E. Kwon  
Hye-Eun KWON

Application Reference No. IP20081399A

Our Docket No.:

4) Lee In Cee May 20, 2011 H. E. Kwon  
LEE, Soo-In Hye-Eun KWON