

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>Jee Hyeon NA</td> <td>11/20/2012</td> </tr> <tr> <td>Jung Mo MOON</td> <td>11/20/2012</td> </tr> <tr> <td>Dae Ik KIM</td> <td>11/20/2012</td> </tr> <tr> <td>Yeon Seung SHIN</td> <td>11/20/2012</td> </tr> <tr> <td>Woo Goo PARK</td> <td>11/20/2012</td> </tr> </tbody> </table> | | Name | Execution Date | Jee Hyeon NA | 11/20/2012 | Jung Mo MOON | 11/20/2012 | Dae Ik KIM | 11/20/2012 | Yeon Seung SHIN | 11/20/2012 | Woo Goo PARK | 11/20/2012 |
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| <table border="1"> <tr> <td>Name:</td> <td>Electronics & Telecommunications Research Institute</td> </tr> <tr> <td>Street Address:</td> <td>161 Gajeong-dong, Yuseong-gu</td> </tr> <tr> <td>City:</td> <td>Daejeon</td> </tr> <tr> <td>State/Country:</td> <td>KOREA, REPUBLIC OF</td> </tr> <tr> <td>Postal Code:</td> <td>305-700</td> </tr> </table> | | Name: | Electronics & Telecommunications Research Institute | Street Address: | 161 Gajeong-dong, Yuseong-gu | City: | Daejeon | State/Country: | KOREA, REPUBLIC OF | Postal Code: | 305-700 | | |
| Name: | Electronics & Telecommunications Research Institute | | | | | | | | | | | | |
| Street Address: | 161 Gajeong-dong, Yuseong-gu | | | | | | | | | | | | |
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| 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>13715303</td> </tr> </tbody> </table> | | Property Type | Number | Application Number: | 13715303 | | | | | | | | |
| Property Type | Number | | | | | | | | | | | | |
| Application Number: | 13715303 | | | | | | | | | | | | |
| CORRESPONDENCE DATA | | | | | | | | | | | | | |
| <p>Fax Number: 6177424214 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 617-573-4700</p> <p>Email: ipboston.docketing@nelsonmullins.com</p> <p>Correspondent Name: NELSON MULLINS RILEY & SCARBOROUGH LLP F</p> <p>Address Line 1: ONE POST OFFICE SQUARE</p> <p>Address Line 4: BOSTON, MASSACHUSETTS 02109</p> | | | | | | | | | | | | | |
| ATTORNEY DOCKET NUMBER: | ES7-097 | | | | | | | | | | | | |
| NAME OF SUBMITTER: | EuiHoon Lee | | | | | | | | | | | | |
| <p>Total Attachments: 2</p> <p>source=es7097_Assignment#page1.tif</p> <p>source=es7097_Assignment#page2.tif</p> | | | | | | | | | | | | | |

CH \$40.00 13715303

Attorney Docket No.:
Client Reference No.: IP2011/104 (E-sang)

ASSIGNMENT

I/We, NA, Jee Hyeon, MOON, Jung Mo, KIM, Dae Ik, SHIN, Yeon Seung and PARK, Woo Goo, in consideration of One Dollar and other valuable consideration paid to me/us by

Electronics & Telecommunications Research Institute

having its principal place of business at 161 Gajeong-dong, Yuseong-gu, Daejeon, REPUBLIC OF KOREA, the receipt of which is hereby acknowledged, do hereby sell, assign and transfer unto said

Electronics & 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

MULTIMEDIA MULTICAST/BROADCAST SERVICE PROVIDING APPARATUS AND
MULTIMEDIA MULTICAST/BROADCAST SERVICE PROVIDING METHOD USING
THE SAME

described in an application

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

☐ 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, the power to insert on this Assignment the filing date and/or application number of said application.

By: Na, Jee Hyeon
(Name) NA, Jee Hyeon

Date: November 20, 2012

Witness: _____
(Name)

Date

By: MOON, Jung Mo
(Name) MOON, Jung Mo

Date: November 20, 2012

Witness: _____
(Name)

Date

By: KIM, Dae Ik
(Name) KIM, Dae Ik

Date: November 20, 2012

Witness: _____
(Name)

Date

By: Yeon S. Shin
(Name) SHIN, Yeon Seung

Date: November 20, 2012

Witness: _____
(Name)

Date

By: Park, Woo Goo
(Name) PARK, Woo Goo

Date: November 20, 2012

Witness: _____
(Name)

Date