

# PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

| <b>SUBMISSION TYPE:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                            | NEW ASSIGNMENT                              |               |                                             |                        |                             |              |            |                       |                   |                     |            |               |            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|---------------|---------------------------------------------|------------------------|-----------------------------|--------------|------------|-----------------------|-------------------|---------------------|------------|---------------|------------|
| <b>NATURE OF CONVEYANCE:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ASSIGNMENT                                  |               |                                             |                        |                             |              |            |                       |                   |                     |            |               |            |
| <b>CONVEYING PARTY DATA</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                             |               |                                             |                        |                             |              |            |                       |                   |                     |            |               |            |
| <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>Seung-Han CHOI</td> <td>07/21/2010</td> </tr> <tr> <td>Woon-Seob SO</td> <td>07/21/2010</td> </tr> <tr> <td>Do-Young KIM</td> <td>07/21/2010</td> </tr> <tr> <td>Hyun-Joo BAE</td> <td>07/21/2010</td> </tr> <tr> <td>Byung-Sun LEE</td> <td>07/21/2010</td> </tr> </tbody> </table> |                                             | Name          | Execution Date                              | Seung-Han CHOI         | 07/21/2010                  | Woon-Seob SO | 07/21/2010 | Do-Young KIM          | 07/21/2010        | Hyun-Joo BAE        | 07/21/2010 | Byung-Sun LEE | 07/21/2010 |
| Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Execution Date                              |               |                                             |                        |                             |              |            |                       |                   |                     |            |               |            |
| Seung-Han CHOI                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 07/21/2010                                  |               |                                             |                        |                             |              |            |                       |                   |                     |            |               |            |
| Woon-Seob SO                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 07/21/2010                                  |               |                                             |                        |                             |              |            |                       |                   |                     |            |               |            |
| Do-Young KIM                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 07/21/2010                                  |               |                                             |                        |                             |              |            |                       |                   |                     |            |               |            |
| Hyun-Joo BAE                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 07/21/2010                                  |               |                                             |                        |                             |              |            |                       |                   |                     |            |               |            |
| Byung-Sun LEE                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 07/21/2010                                  |               |                                             |                        |                             |              |            |                       |                   |                     |            |               |            |
| <b>RECEIVING PARTY DATA</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                             |               |                                             |                        |                             |              |            |                       |                   |                     |            |               |            |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;"><b>Name:</b></td> <td>Electronics and Telecommunications Research</td> </tr> <tr> <td><b>Street Address:</b></td> <td>161 Gajeong-don, Yuseong-gu</td> </tr> <tr> <td><b>City:</b></td> <td>Daejeon-si</td> </tr> <tr> <td><b>State/Country:</b></td> <td>REPUBLIC OF KOREA</td> </tr> <tr> <td><b>Postal Code:</b></td> <td>305-700</td> </tr> </table>                           |                                             | <b>Name:</b>  | Electronics and Telecommunications Research | <b>Street Address:</b> | 161 Gajeong-don, Yuseong-gu | <b>City:</b> | Daejeon-si | <b>State/Country:</b> | REPUBLIC OF KOREA | <b>Postal Code:</b> | 305-700    |               |            |
| <b>Name:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Electronics and Telecommunications Research |               |                                             |                        |                             |              |            |                       |                   |                     |            |               |            |
| <b>Street Address:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 161 Gajeong-don, Yuseong-gu                 |               |                                             |                        |                             |              |            |                       |                   |                     |            |               |            |
| <b>City:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Daejeon-si                                  |               |                                             |                        |                             |              |            |                       |                   |                     |            |               |            |
| <b>State/Country:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                              | REPUBLIC OF KOREA                           |               |                                             |                        |                             |              |            |                       |                   |                     |            |               |            |
| <b>Postal Code:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 305-700                                     |               |                                             |                        |                             |              |            |                       |                   |                     |            |               |            |
| <b>PROPERTY NUMBERS Total: 1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |               |                                             |                        |                             |              |            |                       |                   |                     |            |               |            |
| <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>12850139</td> </tr> </tbody> </table>                                                                                                                                                                                                                                      |                                             | Property Type | Number                                      | Application Number:    | 12850139                    |              |            |                       |                   |                     |            |               |            |
| Property Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Number                                      |               |                                             |                        |                             |              |            |                       |                   |                     |            |               |            |
| Application Number:                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 12850139                                    |               |                                             |                        |                             |              |            |                       |                   |                     |            |               |            |
| <b>CORRESPONDENCE DATA</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                             |               |                                             |                        |                             |              |            |                       |                   |                     |            |               |            |
| <p>Fax Number: (617)742-4214<br/> <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 617-227-7400<br/>         Email: lc@lahive.com</p> <p>Correspondent Name: LAHIVE &amp; COCKFIELD, LLP FLOOR 30, SUITE<br/>         Address Line 1: ONE POST OFFICE SQUARE<br/>         Address Line 4: BOSTON, MASSACHUSETTS 02109</p>                                                                                                        |                                             |               |                                             |                        |                             |              |            |                       |                   |                     |            |               |            |
| <b>ATTORNEY DOCKET NUMBER:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                     | SJ7-039                                     |               |                                             |                        |                             |              |            |                       |                   |                     |            |               |            |
| <b>NAME OF SUBMITTER:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                          | EuiHoon LEE                                 |               |                                             |                        |                             |              |            |                       |                   |                     |            |               |            |

CH \$40.00 12850139

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**PATENT  
REEL: 024788 FRAME: 0482**

Total Attachments: 3

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IP20091148-신지특허 OP09H0284-US

**ASSIGNMENT**

I/We, Seung-Han CHOI, Woon-Seob SO, Do-Young KIM, Hyun-Joo BAE, Byung-Sun LEE, 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-si, 305-700 Republic of Korea, the receipt of which is hereby acknowledged, do hereby sell, assign and transfer unto said

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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

[SET-TOP BOX FOR WIDEBAND IP TELEPHONY SERVICE AND METHOD FOR PROVIDING WIDEBAND IP TELEPHONY SERVICE USING SET-TOP BOX]

described in an application

☒ executed by 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 Lahive & Cockfield, LLP, the power to insert on this Assignment the filing date and/or application number of said application.

By:   
Seung-Han CHOI

Date: July 21, 2010

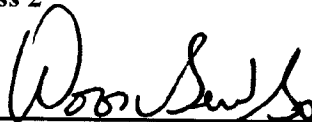
Witnesses:

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Witness 2

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Date

By:   
Woon-Seob SO

Date: July 21, 2010

Witnesses:

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Witness 2

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Date

By:   
Do-Young KIM

Date: July 21, 2010

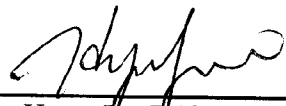
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Date

By:   
Hyun-Joo BAE

Date: July 21, 2010

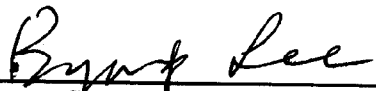
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By:   
Byung-Sun LEE

Date: July 21, 2010

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Date

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Witness 2

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Date