

# 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>Jong Hyun KIM</td><td>03/26/2009</td></tr> <tr><td>Geon Lyang KIM</td><td>03/26/2009</td></tr> <tr><td>Jong Ho RYU</td><td>03/26/2009</td></tr> <tr><td>Chi Yoon JEONG</td><td>03/26/2009</td></tr> <tr><td>Seon Gyoung SOHN</td><td>03/26/2009</td></tr> <tr><td>Beom Hwan CHANG</td><td>03/26/2009</td></tr> <tr><td>Jung Chan NA</td><td>03/26/2009</td></tr> <tr><td>Hyun Sook CHO</td><td>04/04/2009</td></tr> </tbody> </table> |                                                       | Name          | Execution Date                                        | Jong Hyun KIM          | 03/26/2009                   | Geon Lyang KIM | 03/26/2009 | Jong Ho RYU           | 03/26/2009        | Chi Yoon JEONG      | 03/26/2009 | Seon Gyoung SOHN | 03/26/2009 | Beom Hwan CHANG | 03/26/2009 | Jung Chan NA | 03/26/2009 | Hyun Sook CHO | 04/04/2009 |
| Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Execution Date                                        |               |                                                       |                        |                              |                |            |                       |                   |                     |            |                  |            |                 |            |              |            |               |            |
| Jong Hyun KIM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 03/26/2009                                            |               |                                                       |                        |                              |                |            |                       |                   |                     |            |                  |            |                 |            |              |            |               |            |
| Geon Lyang KIM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 03/26/2009                                            |               |                                                       |                        |                              |                |            |                       |                   |                     |            |                  |            |                 |            |              |            |               |            |
| Jong Ho RYU                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 03/26/2009                                            |               |                                                       |                        |                              |                |            |                       |                   |                     |            |                  |            |                 |            |              |            |               |            |
| Chi Yoon JEONG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 03/26/2009                                            |               |                                                       |                        |                              |                |            |                       |                   |                     |            |                  |            |                 |            |              |            |               |            |
| Seon Gyoung SOHN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 03/26/2009                                            |               |                                                       |                        |                              |                |            |                       |                   |                     |            |                  |            |                 |            |              |            |               |            |
| Beom Hwan CHANG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 03/26/2009                                            |               |                                                       |                        |                              |                |            |                       |                   |                     |            |                  |            |                 |            |              |            |               |            |
| Jung Chan NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 03/26/2009                                            |               |                                                       |                        |                              |                |            |                       |                   |                     |            |                  |            |                 |            |              |            |               |            |
| Hyun Sook CHO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 04/04/2009                                            |               |                                                       |                        |                              |                |            |                       |                   |                     |            |                  |            |                 |            |              |            |               |            |
| <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 Institute</td></tr> <tr><td><b>Street Address:</b></td><td>161 Gajeong-dong, Yuseong-gu</td></tr> <tr><td><b>City:</b></td><td>Daejeon</td></tr> <tr><td><b>State/Country:</b></td><td>REPUBLIC OF KOREA</td></tr> <tr><td><b>Postal Code:</b></td><td>305-350</td></tr> </table>                                                                                                                                                                                  |                                                       | <b>Name:</b>  | Electronics and Telecommunications Research Institute | <b>Street Address:</b> | 161 Gajeong-dong, Yuseong-gu | <b>City:</b>   | Daejeon    | <b>State/Country:</b> | REPUBLIC OF KOREA | <b>Postal Code:</b> | 305-350    |                  |            |                 |            |              |            |               |            |
| <b>Name:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Electronics and Telecommunications Research Institute |               |                                                       |                        |                              |                |            |                       |                   |                     |            |                  |            |                 |            |              |            |               |            |
| <b>Street Address:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 161 Gajeong-dong, Yuseong-gu                          |               |                                                       |                        |                              |                |            |                       |                   |                     |            |                  |            |                 |            |              |            |               |            |
| <b>City:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Daejeon                                               |               |                                                       |                        |                              |                |            |                       |                   |                     |            |                  |            |                 |            |              |            |               |            |
| <b>State/Country:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | REPUBLIC OF KOREA                                     |               |                                                       |                        |                              |                |            |                       |                   |                     |            |                  |            |                 |            |              |            |               |            |
| <b>Postal Code:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 305-350                                               |               |                                                       |                        |                              |                |            |                       |                   |                     |            |                  |            |                 |            |              |            |               |            |
| <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 style="width: 70%;">Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12467462</td> </tr> </tbody> </table>                                                                                                                                                                                                                                                                                                                                                                  |                                                       | Property Type | Number                                                | Application Number:    | 12467462                     |                |            |                       |                   |                     |            |                  |            |                 |            |              |            |               |            |
| Property Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Number                                                |               |                                                       |                        |                              |                |            |                       |                   |                     |            |                  |            |                 |            |              |            |               |            |
| Application Number:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 12467462                                              |               |                                                       |                        |                              |                |            |                       |                   |                     |            |                  |            |                 |            |              |            |               |            |
| <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: sjm@lahive.com<br/>       Correspondent Name: Lahive and Cockfield, LLP<br/>       Address Line 1: ONE POST OFFICE SQUARE<br/>       Address Line 2: 30th floor<br/>       Address Line 4: BOSTON, MASSACHUSETTS 02109</p>                                                                                                                                                                                                                                     |                                                       |               |                                                       |                        |                              |                |            |                       |                   |                     |            |                  |            |                 |            |              |            |               |            |

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**PATENT**  
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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| ATTORNEY DOCKET NUMBER:                                                                                                                                                                                                             | PAX7-008    |
| NAME OF SUBMITTER:                                                                                                                                                                                                                  | EuiHoon Lee |
| <b>Total Attachments: 5</b><br>source=PAX7-008_Assignment#page1.tif<br>source=PAX7-008_Assignment#page2.tif<br>source=PAX7-008_Assignment#page3.tif<br>source=PAX7-008_Assignment#page4.tif<br>source=PAX7-008_Assignment#page5.tif |             |

**ASSIGNMENT**

We, KIM, Jong Hyun / KIM, Geon Lyang / RYU, Jong Ho / JEONG, Chi Yoon / SOHN, Seon Gyoung / CHANG, Beom Hwan / NA, Jung-Chan/CHO, Hyun Sook, in consideration of One Dollar and other valuable consideration paid to me by

Electronics and Telecommunications Research Institute

having its principal place of business at #161 Gajeong-dong, Yuseong-gu, Daejeon, 305-350 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

**WEB-BASED TRACEBACK SYSTEM AND METHOD USING REVERSE CACHING PROXY**

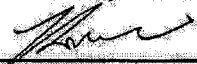
☐ executed by me of even date herewith and about to be filed

☒ Serial No. 12/467,462, filed on May 18, 2009

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 agree, for myself and my executors and administrators, 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 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.

**WITNESS my hand and seal**

By:   
(Name) KIM, Jong Hyun

Date: March 26, 2009

**Witnesses:**

LEE MIN HEE  
Witness 1 LEE, Min Hee

Dong Soo KIM  
Witness 2 KIM, Dong Soo

April 7, 2009  
Date

2009.4.7  
Date

WITNESS my hand and seal

By:   
(Name) KIM, Geon LyangDate: March 26, 2009.

Witnesses:

LEE MIN HEE  
Witness 1 LEE, Min HeeDong soo Kim  
Witness 2 KIM, Dong SooApril 7, 2009  
Date2009.4.7  
Date

WITNESS my hand and seal

By:   
(Name) RYU, Jong HoDate: March 26, 2009

Witnesses:

LEE MIN HEE  
Witness 1 LEE, Min HeeDong soo Kim  
Witness 2 KIM, Dong SooApril 7, 2009  
Date2009.4.7  
Date

WITNESS my hand and seal

By: *Jeong Chi Yoon*  
(Name) JEONG, Chi YoonDate: March 26, 2009

Witnesses:

LEE MIN HEE  
Witness 1 LEE, Min HeeDong soo Kim  
Witness 2 KIM, Dong SooApril 7, 2009

Date

2009.4.7

Date

WITNESS my hand and seal

By: *Seon Gyoung*  
(Name) SOHN, Seon GyoungDate: March 26, 2009

Witnesses:

LEE MIN HEE  
Witness 1 LEE, Min HeeDong soo Kim  
Witness 2 KIM, Dong SooApril 7, 2009

Date

2009.4.7

Date

WITNESS my hand and seal

By: [Signature]  
(Name) CHANG, Beom HwanDate: March 26, 2009

Witnesses:

LEE MIN HEE

Witness 1 LEE, Min Hee

Dong soo Kim

Witness 2 KIM, Dong Soo

April 7, 2009

Date

2009.4.7

Date

WITNESS my hand and seal

By: [Signature]  
(Name) NA, Jung-ChanDate: March 26, 2009

Witnesses:

LEE MIN HEE

Witness 1 LEE, Min Hee

Dong soo Kim

Witness 2 KIM, Dong Soo

April 7, 2009

Date

2009.4.7

Date

WITNESS my hand and seal

By: *Hyun Sook Cho*  
 (Name) CHO, Hyun Sook

Date: *04/07/09*

Witnesses:

*LEE MIN HEE*  
 Witness 1 LEE, Min Hee

*Dong Soo Kim*  
 Witness 2 KIM, Dong Soo

*April 7, 2009*  
 Date  
*2009.4.7*  
 Date