

**PATENT ASSIGNMENT**

Electronic Version v1.1  
 Stylesheet Version v1.1

<b>SUBMISSION TYPE:</b>	CORRECTIVE ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	Corrective Assignment to correct the <name> from <Yong Hoon KIM> to <Young Hoon KIM> previously recorded on Reel 022858 Frame 0701. Assignor (s) hereby confirms the assignment by inventors which assigns the entire interest.

**CONVEYING PARTY DATA**

Name	Execution Date
Kap Seok CHANG	05/14/2009
Il Gyu KIM	05/14/2009
Hyeong Geun PARK	05/14/2009
Young Jo KO	05/14/2009
Hyo Seok YI	05/14/2009
Chan Bok JEONG	05/14/2009
Young Hoon KIM	05/14/2009
Seung Chan BANG	05/14/2009

**RECEIVING PARTY DATA**

<b>Name:</b>	Electronics and Telecommunications Research Institute
<b>Street Address:</b>	161 Gajeong-dong
<b>City:</b>	Yuseong-gu, Daejeon
<b>State/Country:</b>	REPUBLIC OF KOREA
<b>Postal Code:</b>	305-350

**PROPERTY NUMBERS Total: 1**

Property Type	Number
<b>Application Number:</b>	12488258

**CORRESPONDENCE DATA**

**Fax Number:** (617)742-4214  
*Correspondence will be sent via US Mail when the fax attempt is unsuccessful.*  
**Phone:** 617-227-7400  
**Email:** LC@LAHIVE.COM  
**Correspondent Name:** LAHIVE & COCKFIELD, LLP  
**Address Line 1:** One Post Office Square

CH \$40.00 12488258

**500932984**

**PATENT  
 REEL: 023071 FRAME: 0616**

Address Line 2: 30th Floor  
Address Line 4: Boston, MASSACHUSETTS 02109

ATTORNEY DOCKET NUMBER: YM7-007CN

NAME OF SUBMITTER: EuiHoon Lee

Total Attachments: 13  
source=YM7-007CN#page1.tif  
source=YM7-007CN#page2.tif  
source=YM7-007CN#page3.tif  
source=YM7-007CN#page4.tif  
source=YM7-007CN#page5.tif  
source=YM7-007CN#page6.tif  
source=YM7-007CN#page7.tif  
source=YM7-007CN#page8.tif  
source=YM7-007CN#page9.tif  
source=YM7-007CN#page10.tif  
source=YM7-007CN#page11.tif  
source=YM7-007CN#page12.tif  
source=YM7-007CN#page13.tif

<b>PATENT ASSIGNMENT</b>
--------------------------

Electronic Version v1.1  
 Stylesheet Version v1.1

**06/19/2009**  
**500892178**

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT

**CONVEYING PARTY DATA**

Name	Execution Date
Kap Seok CHANG	05/14/2009
Il Gyu KIM	05/14/2009
Hyeong Geun PARK	05/14/2009
Young Jo KO	05/14/2009
Hyo Seok YI	05/14/2009
Chan Bok JEONG	05/14/2009
Yong Hoon KIM	05/14/2009
Seung Chan BANG	05/14/2009

**RECEIVING PARTY DATA**

<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

**PROPERTY NUMBERS Total: 1**

Property Type	Number
<b>Application Number:</b>	12488258

**CORRESPONDENCE DATA**

**Fax Number:** (617)742-4214  
*Correspondence will be sent via US Mail when the fax attempt is unsuccessful.*  
**Phone:** 617-227-7400  
**Email:** lc@lahive.com  
**Correspondent Name:** LAHIVE & COCKFIELD, LLP FLOOR 30, SUITE  
**Address Line 1:** ONE POST OFFICE SQUARE  
**Address Line 4:** BOSTON, MASSACHUSETTS 02109

TO: LAHIVE &amp; COCKFIELD, LLP FLOOR 30, SUITE COMPANY: ONE POST OFFICE SQUARE

ATTORNEY DOCKET NUMBER:	YM7-007CN
NAME OF SUBMITTER:	EuiHoon Lee
Total Attachments: 8 source=Assignment#page1.tif source=Assignment#page2.tif source=Assignment#page3.tif source=Assignment#page4.tif source=Assignment#page5.tif source=Assignment#page6.tif source=Assignment#page7.tif source=Assignment#page8.tif	

**ASSIGNMENT**

We, **CHANG, Kap Seok** of 203-1505, 2-danji, Chorok maeul Apt., 612, Boksu-dong, Seo-gu, Daejeon 302-210, Republic of Korea; **KIM, Il Gyu** of 169, Jukhyang-ri, Okcheon-eup, Okcheon-gun, Chungcheongbuk-do, 373-804, Republic of Korea; **PARK, Hyeong Geun** of 107-703, Yeolmae Maeul Apt., Jijok-dong, Yuseong-gu, Daejeon 302-223, Republic of Korea; **KO, Young Jo** of 102-706, Mugunghwa Apt., Wolpyeong2-dong, Seo-gu, Daejeon 302-747, Republic of Korea; **YI, Hyo Seok** of 503-1701, Yangeemaul Apt., Banseok-dong, Yuseong-gu, Daejeon 305-750, Republic of Korea; **JEONG, Chan Bok** of 211-1204, Euneosong maeul 2-danji Apt., Daesung-dong, Dong-gu, Daejeon 300-210, Republic of Korea; **KIM, Young Hoon** of 102-501, Hyundai Apt., 431-6, Doryong-dong, Yuseong-gu, Daejeon 305-340, Republic of Korea; and **BANG, Seung Chan** of 111-1102, Nuri Apt., Walpyung-dong, Seo-gu, Daejeon 302-280, Republic of Korea, in consideration of One Dollar and other valuable consideration paid to us 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

**METHOD FOR GENERATING DOWNLINK FRAME, AND METHOD FOR SEARCHING CELL**

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 we agree, for ourselves and our 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 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.

WITNESS my hand and seal

By: Chang Kapsook  
(Name) CHANG, Kap Seok

Date: May 14, 2009

Witnesses:

\_\_\_\_\_  
Witness 1

\_\_\_\_\_  
Date

\_\_\_\_\_  
Witness 2

\_\_\_\_\_  
Date

WITNESS my hand and seal

By: [Signature]  
(Name) KIM, Il Gyu

Date: May 14, 2009

Witnesses:

\_\_\_\_\_  
Witness 1

\_\_\_\_\_  
Date

\_\_\_\_\_  
Witness 2

\_\_\_\_\_  
Date

WITNESS my hand and seal

By: [Signature]  
(Name) PARK, Hyeong Geun

Date: May 14, 2009

Witnesses:

\_\_\_\_\_  
Witness 1

\_\_\_\_\_  
Date

\_\_\_\_\_  
Witness 2

\_\_\_\_\_  
Date

WITNESS my hand and seal

By: *[Signature]*  
(Name) KO, Young Jo

Date: May 14, 2009

Witnesses:

\_\_\_\_\_  
Witness 1

\_\_\_\_\_  
Date

\_\_\_\_\_  
Witness 2

\_\_\_\_\_  
Date

WITNESS my hand and seal

By: \_\_\_\_\_  
(Name) YI, Hyo Seok

Date: \_\_\_\_\_

Witnesses:

\_\_\_\_\_  
Witness 1

\_\_\_\_\_  
Date

\_\_\_\_\_  
Witness 2

\_\_\_\_\_  
Date

WITNESS my hand and seal

By: *[Signature]*  
(Name) JEONG, Chan Bok

Date: May 14, 2009

Witnesses:

\_\_\_\_\_  
Witness 1

\_\_\_\_\_  
Date

\_\_\_\_\_  
Witness 2

\_\_\_\_\_  
Date

WITNESS my hand and seal

By: Young Hoon Kim  
(Name) KIM, Young Hoon

Date: May 14, 2009

Witnesses:

\_\_\_\_\_  
Witness 1

\_\_\_\_\_  
Date

\_\_\_\_\_  
Witness 2

\_\_\_\_\_  
Date

WITNESS my hand and seal

By: Bang, Seung Chan  
(Name) BANG, Seung Chan

Date: May 14, 2009

Witnesses:

\_\_\_\_\_  
Witness 1

\_\_\_\_\_  
Date

\_\_\_\_\_  
Witness 2

\_\_\_\_\_  
Date



ASSIGNMENT

We, CHANG, Kap Seok of 203-1505, 2-danji, Chorok maeul Apt., 612, Boksu-dong, Seo-gu, Daejeon 302-210, Republic of Korea; KIM, Il Gyu of 169, Jukhyang-ri, Okcheon-eup, Okcheon-gun, Chungcheongbuk-do, 373-804, Republic of Korea; PARK, Hyeong Geun of 107-703, Yeolmae Maeul Apt., Jijok-dong, Yuseong-gu, Daejeon 302-223, Republic of Korea; KO, Young Jo of 102-706, Mugunghwa Apt., Wolpyeong2-dong, Seo-gu, Daejeon 302-747, Republic of Korea; YI, Hyo Seok of 503-1701, Yangeemaul Apt., Banseok-dong, Yuseong-gu, Daejeon 305-750, Republic of Korea; JEONG, Chan Bok of 211-1204, Euneosong maeul 2-danji Apt., Daesung-dong, Dong-gu, Daejeon 300-210, Republic of Korea; KIM, Young Hoon of 102-501, Hyundai Apt., 431-6, Doryong-dong, Yuseong-gu, Daejeon 305-340, Republic of Korea; and BANG, Seung Chan of 111-1102, Nuri Apt., Walpyung-dong, Seo-gu, Daejeon 302-280, Republic of Korea, in consideration of One Dollar and other valuable consideration paid to us 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

**METHOD FOR GENERATING DOWNLINK FRAME, AND METHOD FOR SEARCHING CELL**

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 we agree, for ourselves and our 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 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.

WITNESS my hand and seal

By: \_\_\_\_\_  
(Name) CHANG, Kap Seok

Date: \_\_\_\_\_

Witnesses:

\_\_\_\_\_  
Witness 1

\_\_\_\_\_  
Date

\_\_\_\_\_  
Witness 2

\_\_\_\_\_  
Date

WITNESS my hand and seal

By: \_\_\_\_\_  
(Name) KIM, Il Gyu

Date: \_\_\_\_\_

Witnesses:

\_\_\_\_\_  
Witness 1

\_\_\_\_\_  
Date

\_\_\_\_\_  
Witness 2

\_\_\_\_\_  
Date

WITNESS my hand and seal

By: \_\_\_\_\_  
(Name) PARK, Hyeong Geun

Date: \_\_\_\_\_

Witnesses:

\_\_\_\_\_  
Witness 1

\_\_\_\_\_  
Date

00148F

Atty. Docket No. \_\_\_\_\_

\_\_\_\_\_  
Witness 2

\_\_\_\_\_  
Date

WITNESS my hand and seal

By: \_\_\_\_\_  
(Name) KO, Young Jo

Date: \_\_\_\_\_

Witnesses:

\_\_\_\_\_  
Witness 1

\_\_\_\_\_  
Date

\_\_\_\_\_  
Witness 2

\_\_\_\_\_  
Date

WITNESS my hand and seal

By: YI, Hyo Seok  
(Name) YI, Hyo Seok

Date: May 14, 2009

Witnesses:

\_\_\_\_\_  
Witness 1

\_\_\_\_\_  
Date

\_\_\_\_\_  
Witness 2

\_\_\_\_\_  
Date

WITNESS my hand and seal

By: \_\_\_\_\_  
(Name) JEONG, Chan Bok

Date: \_\_\_\_\_

Witnesses:

\_\_\_\_\_  
Witness 1

\_\_\_\_\_  
Date

\_\_\_\_\_  
Witness 2

\_\_\_\_\_  
Date

WITNESS my hand and seal

By: \_\_\_\_\_  
(Name) KIM, Young Hoon

Date: \_\_\_\_\_

Witnesses:

\_\_\_\_\_  
Witness 1

\_\_\_\_\_  
Date

\_\_\_\_\_  
Witness 2

\_\_\_\_\_  
Date

WITNESS my hand and seal

By: \_\_\_\_\_  
(Name) BANG, Seung Chan

Date: \_\_\_\_\_

Witnesses:

\_\_\_\_\_  
Witness 1

\_\_\_\_\_  
Date

\_\_\_\_\_  
Witness 2

\_\_\_\_\_  
Date