

## 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-Heung KIM</td><td>09/13/2008</td></tr><tr><td>Jung-Im KIM</td><td>09/13/2008</td></tr><tr><td>Kyoung-Seok LEE</td><td>09/13/2008</td></tr><tr><td>Byung-Han RYU</td><td>09/13/2008</td></tr><tr><td>Seung-Chan BANG</td><td>09/14/2008</td></tr></tbody></table> | Name  | Execution Date | Jae-Heung KIM       | 09/13/2008 | Jung-Im KIM | 09/13/2008 | Kyoung-Seok LEE | 09/13/2008 | Byung-Han RYU | 09/13/2008 | Seung-Chan BANG | 09/14/2008 |  |
| Name  | Execution Date  |                |                     |            |             |            |                 |            |               |            |                 |            |  |
| Jae-Heung KIM   | 09/13/2008  |                |                     |            |             |            |                 |            |               |            |                 |            |  |
| Jung-Im KIM   | 09/13/2008  |                |                     |            |             |            |                 |            |               |            |                 |            |  |
| Kyoung-Seok LEE   | 09/13/2008  |                |                     |            |             |            |                 |            |               |            |                 |            |  |
| Byung-Han RYU   | 09/13/2008  |                |                     |            |             |            |                 |            |               |            |                 |            |  |
| Seung-Chan BANG   | 09/14/2008  |                |                     |            |             |            |                 |            |               |            |                 |            |  |
| 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>12281913</td></tr></tbody></table>  | Property Type   | Number         | Application Number: | 12281913   |             |            |                 |            |               |            |                 |            |  |
| Property Type   | Number  |                |                     |            |             |            |                 |            |               |            |                 |            |  |
| Application Number:   | 12281913  |                |                     |            |             |            |                 |            |               |            |                 |            |  |
| CORRESPONDENCE DATA   |   |                |                     |            |             |            |                 |            |               |            |                 |            |  |
| Fax Number:   | (860)286-0115   |                |                     |            |             |            |                 |            |               |            |                 |            |  |
| <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>  |   |                |                     |            |             |            |                 |            |               |            |                 |            |  |
| Phone:  | 860-286-2929  |                |                     |            |             |            |                 |            |               |            |                 |            |  |
| Email:  | cldavenport@cantorcolburn.com                         |                |                     |            |             |            |                 |            |               |            |                 |            |  |
| Correspondent Name:   | CANTOR COLBURN, LLP                                   |                |                     |            |             |            |                 |            |               |            |                 |            |  |
| Address Line 1:   | 20 Church Street, 22nd Floor                          |                |                     |            |             |            |                 |            |               |            |                 |            |  |
| Address Line 4:   | Hartford, CONNECTICUT 06103                           |                |                     |            |             |            |                 |            |               |            |                 |            |  |
| ATTORNEY DOCKET NUMBER:   | SHS-0052  |                |                     |            |             |            |                 |            |               |            |                 |            |  |
| NAME OF SUBMITTER:  | Jae Y. Park   |                |                     |            |             |            |                 |            |               |            |                 |            |  |

CH \$40.00 12281913

500745752

PATENT  
REEL: 022057 FRAME: 0411

**Total Attachments: 4**

source=27O9585#page1.tif

source=27O9585#page2.tif

source=27O9585#page3.tif

source=27O9585#page4.tif

**PATENT**

**REEL: 022057 FRAME: 0412**

## ASSIGNMENT

WHEREAS We, **Jae-Heung KIM** of #108-302 Sejong Apt., Jeonmin-dong, Yuseong-gu, Daejeon 305-728, Republic of Korea, **Jung-Im KIM** of #106-401 Backhap Apt., Wolpyeong-dong, Seo-gu, Daejeon 302-280, Republic of Korea, **Kyoung-Seok LEE** of #106-1005 Dungji Apt., Dunsan 2-dong, Seo-gu, Daejeon 302-734, Republic of Korea, **Byung-Han RYU** of #118-604 Hanbit Apt., Eoeun-dong, Yuseong-gu, Daejeon 305-755, Republic of Korea and **Seung-Chan BANG** of #111-1102 Nuri Apt., Wolpyeong-dong, Seo-gu, Daejeon 302-280, Republic of Korea (hereinafter referred to as "ASSIGNORS"); have invented certain new and useful improvements in:

### **METHOD FOR REDUCING POWER CONSUMPTION OF A TERMINAL IN CELLULAR SYSTEM**

Serial No. 12/281,913

Filed on September 5, 2008

which claims priority to Korean Application No. 10-2006-0021316, filed on March 7, 2006; Korean Application No. 10-2006-0022697, filed on March 10, 2006; Korean Application No. 10-2007-0010883, filed on February 2, 2007; was filed on March 6, 2007 as International Application No. PCT/KR2007/001094; and for which I, said ASSIGNOR, am about to file an application for Letters Patent of the United States;

AND WHEREAS, **ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE** (hereinafter referred to as "ASSIGNEE"), a corporation organized and existing under the laws of the Country of the KOREA, having a place of business at **161, Gajeong-dong, Yuseong-gu, Daejeon 305-350, Republic of Korea** is desirous of acquiring an interest in the United States and all foreign countries, in and to the said invention and Letters Patent to be obtained therefor;

NOW THEREFORE, TO ALL WHOM IT MAY CONCERN, be it known that, for good and valuable consideration, the receipt of which is hereby acknowledged, We, the said ASSIGNORS have assigned and transferred, and hereby assign and transfer unto the said ASSIGNEE, the entire right, title and interest in and to said invention in the United States and in all foreign countries, including priority rights, as fully set forth and described in said application; and We do hereby authorize and request the Commissioner of Patents to issue said

Letters Patent on said application, and any and all Letters Patent that may be issued upon any and all revivals, refilings, continuations, continuations-in-part, divisions and reissues thereof, to the said ASSIGNEE, an assignee of the entire right, title and interest in and to the same, for the sole use and behoof of ASSIGNEE, its successors and assigns; and We do hereby agree that the said ASSIGNEE, may apply for foreign Letters Patent on said invention and that We will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by the said ASSIGNEE, its successors or assigns, and that We will, at the cost and expense of the said ASSIGNEE fully assist and cooperate in all matters in connection with the United States and foreign applications and patents issuing thereon.

The undersigned declare that all statements made herein of their own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Date: September 13, 2008

Jae Heung Kim L.S.  
Jae-Heung KIM

Date: September 13, 2008

Jung Im Kim L.S.  
Jung-Im KIM

Date: September 13, 2008

Kyoung-Jak Lee L.S.  
Kyoung-Seok LEE

Date: September 13, 2008

Byung Han Ryu L.S.  
Byung-Han RYU

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

\_\_\_\_\_  
Seung-Chan BANG

## ASSIGNMENT

WHEREAS We, **Jae-Heung KIM** of #108-302 Sejong Apt., Jeonmin-dong, Yuseong-gu, Daejon 305-728, Republic of Korea, **Jung-Im KIM** of #106-401 Baekhap Apt., Wolpyeong-dong, Seo-gu, Daejon 302-280, Republic of Korea, **Kyoung-Seok LEE** of #106-1005 Dunggji Apt., Dunsan 2-dong, Seo-gu, Daejon 302-734, Republic of Korea, **Byung-Han RYU** of #118-604 Hanbit Apt., Eoeun-dong, Yuseong-gu, Daejon 305-755, Republic of Korea and **Seung-Chan BANG** of #111-1102 Nuri Apt., Wolpyeong-dong, Seo-gu, Daejon 302-280, Republic of Korea (hereinafter referred to as "ASSIGNORS"); have invented certain new and useful improvements in:

### **METHOD FOR REDUCING POWER CONSUMPTION OF A TERMINAL IN CELLULAR SYSTEM**

Serial No. 12/281,913

Filed on September 5, 2008

which claims priority to Korean Application No. 10-2006-0021316, filed on March 7, 2006; Korean Application No. 10-2006-0022697, filed on March 10, 2006; Korean Application No. 10-2007-0010883, filed on February 2, 2007; was filed on March 6, 2007 as International Application No. PCT/KR2007/001094; and for which I, said ASSIGNOR, am about to file an application for Letters Patent of the United States;

AND WHEREAS, **ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE** (hereinafter referred to as "ASSIGNEE"), a corporation organized and existing under the laws of the Country of the KOREA, having a place of business at **161, Gajeong-dong, Yuseong-gu, Daejon 305-350, Republic of Korea** is desirous of acquiring an interest in the United States and all foreign countries, in and to the said invention and Letters Patent to be obtained therefor;

NOW THEREFORE, TO ALL WHOM IT MAY CONCERN, be it known that, for good and valuable consideration, the receipt of which is hereby acknowledged, We, the said ASSIGNORS have assigned and transferred, and hereby assign and transfer unto the said ASSIGNEE, the entire right, title and interest in and to said invention in the United States and in all foreign countries, including priority rights, as fully set forth and described in said application; and We do hereby authorize and request the Commissioner of Patents to issue said

Letters Patent on said application, and any and all Letters Patent that may be issued upon any and all revivals, refilings, continuations, continuations-in-part, divisions and reissues thereof, to the said ASSIGNEE, an assignee of the entire right, title and interest in and to the same, for the sole use and behoof of ASSIGNEE, its successors and assigns; and We do hereby agree that the said ASSIGNEE, may apply for foreign Letters Patent on said invention and that We will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by the said ASSIGNEE, its successors or assigns, and that We will, at the cost and expense of the said ASSIGNEE fully assist and cooperate in all matters in connection with the United States and foreign applications and patents issuing thereon

The undersigned declare that all statements made herein of their own knowledge are true and that all statements made on information and belief are believed to be true; and further: that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Date: \_\_\_\_\_ L.S.  
Jac-Heung KIM

Date: \_\_\_\_\_ L.S.  
Jung-In KIM

Date: \_\_\_\_\_ L.S.  
Kyoung-Seok LEE

Date: \_\_\_\_\_ L.S.  
Byung-Han RYU

Date: Sep. 14, 2008 L.S.  
SeungChan Bang  
Seung-Chan BANG