

## 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>Giwon PARK</td> <td>08/14/2012</td> </tr> <tr> <td>Inuk JUNG</td> <td>10/02/2012</td> </tr> <tr> <td>Youngsoo YUK</td> <td>08/20/2012</td> </tr> <tr> <td>Jin LEE</td> <td>08/13/2012</td> </tr> </tbody> </table>		Name	Execution Date	Giwon PARK	08/14/2012	Inuk JUNG	10/02/2012	Youngsoo YUK	08/20/2012	Jin LEE	08/13/2012
Name	Execution Date										
Giwon PARK	08/14/2012										
Inuk JUNG	10/02/2012										
Youngsoo YUK	08/20/2012										
Jin LEE	08/13/2012										
RECEIVING PARTY DATA											
Name:	LG ELECTRONICS INC.										
Street Address:	20 Yeouido-dong, Yeongdeungpo-gu										
City:	Seoul										
State/Country:	KOREA, REPUBLIC OF										
Postal Code:	150-721										
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>13639862</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13639862						
Property Type	Number										
Application Number:	13639862										
CORRESPONDENCE DATA											
Fax Number: <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone:	213-623-2221										
Email:	patent@hlaw.com										
Correspondent Name:	LEE, HONG, DEGERMAN, KANG & WAIMEY										
Address Line 1:	660 S. FIGUEROA STREET										
Address Line 2:	Suite 2300										
Address Line 4:	LOS ANGELES, CALIFORNIA 90017										
ATTORNEY DOCKET NUMBER:	2101-5359										
NAME OF SUBMITTER:	Harry S. Lee										
Total Attachments: 8											

OP \$40.00 13639862

source=9-2101-5359-Assignment#page1.tif  
source=9-2101-5359-Assignment#page2.tif  
source=9-2101-5359-Assignment#page3.tif  
source=9-2101-5359-Assignment#page4.tif  
source=9-2101-5359-Assignment#page5.tif  
source=9-2101-5359-Assignment#page6.tif  
source=9-2101-5359-Assignment#page7.tif  
source=9-2101-5359-Assignment#page8.tif

ASSIGNMENT

(1-8) *Insert Name(s) of Inventor(s)* (1) PARK, Giwon (5)  
 (2) JUNG, Inuk  
 (3) YUK, Youngsoo  
 (4) LEE, Jin

In consideration of the sum of one dollar (\$1.00) and other good and valuable considerations paid to each of the undersigned, the undersigned agree(s) to assign, and hereby does assign, transfer and set over to

(9) *Insert name of Assignee* (9) LG ELECTRONICS INC.  
 (10) *Insert state of Incorporation of Assignee* (10) Korea  
 (11) *Insert address of Assignee* (11) 20 Yeouido-dong, Yeongdeungpo-gu, Seoul 150-721  
 Korea

(hereinafter designated as the Assignee) the entire worldwide right, title and interest in the invention known as

(12) *Insert identification of Invention, such as Title, Case Number or Foreign Application Number* (12) GROUP-BASED M2M COMMUNICATION METHOD  
 for which the undersigned has (have) executed an application for patent in the United States of America and all patent applications in foreign countries corresponding thereto or based thereon.

1) The undersigned agree(s) to execute all papers necessary in connection with any original, reissue, divisional and continuing United States and foreign applications for the above-identified invention and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

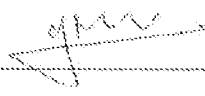
2) The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation or division thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

3) The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

4) The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

5) The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application or any division or divisions or continuing applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed any agreement in conflict herewith.

The undersigned hereby appoints the Attorneys associated with Customer No. 035884 the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Date: 2012.08.14 Signature of Inventor 1 

Date: ..... Signature of Inventor 2 .....

Date: ..... Signature of Inventor 3 .....

Date: ..... Signature of Inventor 4 .....

ASSIGNMENT

(1-8) *Insert Name(s) of Inventor(s)* (1) PARK, Giwon (5)  
 (2) JUNG, Inuk  
 (3) YUK, Youngsoo  
 (4) LEE, Jin

In consideration of the sum of one dollar (\$1.00) and other good and valuable considerations paid to each of the undersigned, the undersigned agree(s) to assign, and hereby does assign, transfer and set over to

(9) *Insert name of Assignee* (9) LG ELECTRONICS INC.

(10) *Insert state of Incorporation of Assignee* (10) Korea

(11) *Insert address of Assignee* (11) 20 Yeouido-dong, Yeongdeungpo-gu, Seoul 150-721  
 Korea

(hereinafter designated as the Assignee) the entire worldwide right, title and interest in the invention known as

(12) *Insert identification of Invention, such as Title, Case Number or Foreign Application Number* (12) GROUP-BASED M2M COMMUNICATION METHOD  
 for which the undersigned has (have) executed an application for patent in the United States of America and all patent applications in foreign countries corresponding thereto or based thereon.

1) The undersigned agree(s) to execute all papers necessary in connection with any original, reissue, divisional and continuing United States and foreign applications for the above-identified invention and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

2) The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation or division thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

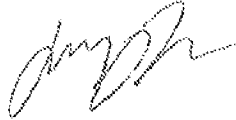
3) The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements

4) The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

5) The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application or any division or divisions or continuing applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed any agreement in conflict herewith.

The undersigned hereby appoints the Attorneys associated with Customer No. 035884 the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Date: \_\_\_\_\_ Signature of Inventor 1 \_\_\_\_\_



Date: 2 Oct 2012 Signature of Inventor 2 \_\_\_\_\_

Date: \_\_\_\_\_ Signature of Inventor 3 \_\_\_\_\_

Date: \_\_\_\_\_ Signature of Inventor 4 \_\_\_\_\_

## ASSIGNMENT

(1-8) *Insert Name(s) of Inventor(s)* (1) PARK, Giwon (5)  
 (2) JUNG, Inuk  
 (3) YUK, Youngsoo  
 (4) LEE, Jin

In consideration of the sum of one dollar (\$1.00) and other good and valuable considerations paid to each of the undersigned, the undersigned agree(s) to assign, and hereby does assign, transfer and set over to

(9) *Insert name of Assignee* (9) LG ELECTRONICS INC.  
 (10) *Insert state of Incorporation of Assignee* (10) Korea  
 (11) *Insert address of Assignee* (11) 20 Yeouido-dong, Yeongdeungpo-gu, Seoul 150-721  
 Korea

(hereinafter designated as the Assignee) the entire worldwide right, title and interest in the invention known as

(12) *Insert identification of Invention, such as Title, Case Number or Foreign Application Number* (12) GROUP-BASED M2M COMMUNICATION METHOD  
 for which the undersigned has (have) executed an application for patent in the United States of America and all patent applications in foreign countries corresponding thereto or based thereon.

1) The undersigned agree(s) to execute all papers necessary in connection with any original, reissue, divisional and continuing United States and foreign applications for the above-identified invention and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

2) The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation or division thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

3) The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

4) The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

5) The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application or any division or divisions or continuing applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed any agreement in conflict herewith.

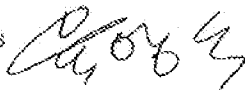
The undersigned hereby appoints the Attorneys associated with Customer No. 035884 the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Date:

Signature of Inventor 1

Date: Signature of Inventor 2

Date: Aug. 20th, 2012 Signature of Inventor 3

A handwritten signature in black ink, appearing to be 'C. O. G.' with a stylized flourish at the end.

Date: Signature of Inventor 4



ASSIGNMENT

(1-8) *Insert Name(s) of Inventor(s)* (1) PARK, Giwon (5)  
 (2) JUNG, Inuk  
 (3) YUK, Youngsco  
 (4) LEE, Jin

In consideration of the sum of one dollar (\$1.00) and other good and valuable considerations paid to each of the undersigned, the undersigned agree(s) to assign, and hereby does assign, transfer and set over to

(9) *Insert name of Assignee* (9) LG ELECTRONICS INC.  
 (10) *Insert state of Incorporation of Assignee* (10) Korea

(11) *Insert address of Assignee* (11) 20 Yeouido-dong, Yeongdeungpo-gu, Seoul 150-721  
 Korea

(hereinafter designated as the Assignee) the entire worldwide right, title and interest in the invention known as

(12) *Insert identification of Invention, such as Title, Case Number or Foreign Application Number* (12) GROUP-BASED M2M COMMUNICATION METHOD  
 for which the undersigned has (have) executed an application for patent in the United States of America and all patent applications in foreign countries corresponding thereto or based thereon.

1) The undersigned agree(s) to execute all papers necessary in connection with any original, reissue, divisional and continuing United States and foreign applications for the above-identified invention and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

2) The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation or division thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

3) The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the international Convention for Protection of Industrial Property or similar agreements

4) The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

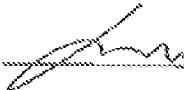
5) The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application or any division or divisions or continuing applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed any agreement in conflict herewith.

The undersigned hereby appoints the Attorneys associated with Customer No. 035884 the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Date: \_\_\_\_\_ Signature of Inventor 1 \_\_\_\_\_

Signature of Inventor 2 \_\_\_\_\_

Signature of Inventor 3 \_\_\_\_\_

Aug 12, 1992 Signature of Inventor 4  \_\_\_\_\_