

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>Jean-Francois DEPRUN</td> <td>10/17/2012</td> </tr> <tr> <td>Younsung CHU</td> <td>10/22/2012</td> </tr> <tr> <td>Jihye LEE</td> <td>10/17/2012</td> </tr> </tbody> </table> | | Name | Execution Date | Jean-Francois DEPRUN | 10/17/2012 | Younsung CHU | 10/22/2012 | Jihye LEE | 10/17/2012 | | |
| Name | Execution Date | | | | | | | | | | |
| Jean-Francois DEPRUN | 10/17/2012 | | | | | | | | | | |
| Younsung CHU | 10/22/2012 | | | | | | | | | | |
| Jihye LEE | 10/17/2012 | | | | | | | | | | |
| RECEIVING PARTY DATA | | | | | | | | | | | |
| <table border="1"> <tr> <td>Name:</td> <td>LG Electronics Inc.</td> </tr> <tr> <td>Street Address:</td> <td>20 Yeouido-dong, Yeongdeungpo-gu</td> </tr> <tr> <td>City:</td> <td>Seoul</td> </tr> <tr> <td>State/Country:</td> <td>KOREA, REPUBLIC OF</td> </tr> <tr> <td>Postal Code:</td> <td>150-721</td> </tr> </table> | | Name: | LG Electronics Inc. | Street Address: | 20 Yeouido-dong, Yeongdeungpo-gu | City: | Seoul | State/Country: | KOREA, REPUBLIC OF | Postal Code: | 150-721 |
| 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>13702187</td> </tr> </tbody> </table> | | Property Type | Number | Application Number: | 13702187 | | | | | | |
| Property Type | Number | | | | | | | | | | |
| Application Number: | 13702187 | | | | | | | | | | |
| CORRESPONDENCE DATA | | | | | | | | | | | |
| <p>Fax Number: 2027393001 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 202.739.3000</p> <p>Email: patents@morganlewis.com, ateckman@morganlewis.com</p> <p>Correspondent Name: Robert J. Gaybrick</p> <p>Address Line 1: 1111 Pennsylvania Ave, NW</p> <p>Address Line 4: Washington, DISTRICT OF COLUMBIA 20004</p> | | | | | | | | | | | |
| ATTORNEY DOCKET NUMBER: | 001082-5103 | | | | | | | | | | |
| NAME OF SUBMITTER: | Robert J. Goodell | | | | | | | | | | |
| <p>Total Attachments: 6</p> <p>source=001082-5103-Assignment03012013#page1.tif</p> <p>source=001082-5103-Assignment03012013#page2.tif</p> <p>source=001082-5103-Assignment03012013#page3.tif</p> <p>source=001082-5103-Assignment03012013#page4.tif</p> <p>source=001082-5103-Assignment03012013#page5.tif</p> <p>source=001082-5103-Assignment03012013#page6.tif</p> | | | | | | | | | | | |

CH \$40.00 13702187

ASSIGNMENT

WHEREAS WE, the below named inventors, (hereinafter referred to as "Assignors"), have made an invention entitled:

METHOD FOR A DEVICE TO COMMUNICATE WITH ANOTHER DEVICE

for which WE filed an application of United States on December 5, 2012 (Application No 13/702,187); and

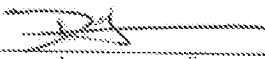
WHEREAS LG Electronics Inc. whose post office address is 20 Yeouido-dong, Yeongdeungpo-gu Seoul 150-721 Republic of Korea (hereinafter referred to as "Assignee"), is desirous of securing the entire right, title, and interest in and to this invention in all countries throughout the world, and in and to the application of United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, WE, as assignors, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, OUR entire right, title, and interest in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof, and all rights to claim priority on the basis of such applications, and all applications for Letters Patent which may hereafter be filed for this invention in any foreign country and all Letters Patent which may be granted on this invention in any foreign country, and all extensions, renewals, and reissues thereof; and WE hereby authorize and request the Director of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent of this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, WE HEREBY covenant that WE have the full right to convey the interest assigned by this Assignment, and WE have not executed and will not execute any agreement in conflict with this Assignment;

AND, WE HEREBY further covenant and agree that WE will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to US respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns.

IN TESTIMONY WHEREOF, WE have hereunto set my hands.

| | |
|------------------------------|---|
| Full Name of first Assignor | Jean-Francois DEPRUN |
| Address | 117, Avenue des Nations -BP 69012 Villepinte, Roissy CDG Cedux, 95970 Paris France |
| Signature |  |
| Date | 12/10/12 |
| Full Name of second Assignor | Younsung CHU |
| Address | 533 Hoge-Dong, Dongan-Gu, Anyang-Si, Gyeonggi-Do, 431-080 Republic of Korea |
| Signature | |
| Date | |

| | |
|-----------------------------|--|
| Full Name of third Assignor | Jihye LEE |
| Address | 533, Hoge-Dong, Dongan-Gu, Anyang-Si, Gyeonggi-Do, 431-080 Republic of Korea |
| Signature | |
| Date | |

ASSIGNMENT

WHEREAS WE, the below named inventors, (hereinafter referred to as "Assignors"), have made an invention entitled:

METHOD FOR A DEVICE TO COMMUNICATE WITH ANOTHER DEVICE

for which WE filed an application of United States on December 5, 2012, (Application No 13/702,187); and

WHEREAS LG Electronics Inc. whose post office address is 20 Yeouido-dong, Yeongdeungpo-gu Seoul 150-721 Republic of Korea (hereinafter referred to as "Assignee"), is desirous of securing the entire right, title, and interest in and to this invention in all countries throughout the world, and in and to the application of United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, WE, as assignors, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, OUR entire right, title, and interest in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof, and all rights to claim priority on the basis of such applications, and all applications for Letters Patent which may hereafter be filed for this invention in any foreign country and all Letters Patent which may be granted on this invention in any foreign country, and all extensions, renewals, and reissues thereof; and WE hereby authorize and request the Director of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent of this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, WE HEREBY covenant that WE have the full right to convey the interest assigned by this Assignment, and WE have not executed and will not execute any agreement in conflict with this Assignment;

AND, WE HEREBY further covenant and agree that WE will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to US respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns.

IN TESTIMONY WHEREOF, WE have hereunto set my hands.

| | |
|------------------------------|--|
| Full Name of first Assignor | Jean-Francois DEPRUN |
| Address | 117, Avenue des Nations -BP 69012 Villepinte, Roissy CDG Cedex, 95970 Paris France |
| Signature | |
| Date | |
| Full Name of second Assignor | Younsung CHU |
| Address | 533 Hoge-Dong, Dongan-Gu, Anyang-Si, Gyeonggi-Do, 431-080 Republic of Korea |
| Signature | <i>Youn Sung Chu</i> |
| Date | <i>Oct 22 2012</i> |

| | |
|-----------------------------|--|
| Full Name of third Assignor | Jihye LEE |
| Address | 533, Hoge-Dong, Dongan-Gu, Anyang-Si, Gyeonggi-Do, 431-080 Republic of Korea |
| Signature | |
| Date | |

ASSIGNMENT

WHEREAS WE, the below named inventors, (hereinafter referred to as "Assignors"), have made an invention entitled:

METHOD FOR A DEVICE TO COMMUNICATE WITH ANOTHER DEVICE

for which WE filed an application of United States on December 5, 2012, (Application No 13/702187); and

WHEREAS LG Electronics Inc. whose post office address is 20 Yeouido-dong, Yeongdeungpo-gu Seoul 150-721 Republic of Korea (hereinafter referred to as "Assignee"), is desirous of securing the entire right, title, and interest in and to this invention in all countries throughout the world, and in and to the application of United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, WE, as assignors, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, OUR entire right, title, and interest in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof, and all rights to claim priority on the basis of such applications, and all applications for Letters Patent which may hereafter be filed for this invention in any foreign country and all Letters Patent which may be granted on this invention in any foreign country, and all extensions, renewals, and reissues thereof; and WE hereby authorize and request the Director of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent of this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, WE HEREBY covenant that WE have the full right to convey the interest assigned by this Assignment, and WE have not executed and will not execute any agreement in conflict with this Assignment;

AND, WE HEREBY further covenant and agree that WE will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to US respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns.

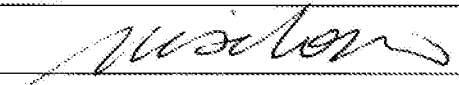
IN TESTIMONY WHEREOF, WE have hereunto set my hands.

| | |
|------------------------------|--|
| Full Name of first Assignor | Jean-Francois DEPRUN |
| Address | 117, Avenue des Nations -BP 69012 Villepinte, Roissy CDG Cedex, 95970 Paris France |
| Signature | |
| Date | |
| Full Name of second Assignor | Younsung CHU |
| Address | 533 Hogye-Dong, Dongan-Gu, Anyang-Si, Gyeonggi-Do, 431-080 Republic of Korea |
| Signature | |
| Date | |

Morgan, Lewis & Bockius LLP

DB1/71313290.1

PATENT
REEL: 029905 FRAME: 0834

| | |
|-----------------------------|--|
| Full Name of third Assignor | Jihye LEE |
| Address | 533, Hoge-Dong, Dongan-Gu, Anyang-Si, Gyeonggi-Do, 431-080 Republic of Korea |
| Signature |  |
| Date | 10 / 17 / 2012 |