

PATENT ASSIGNMENT

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SUBMISSION TYPE:

NEW ASSIGNMENT

NATURE OF CONVEYANCE:

ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Byoung-Hoon KIM	11/21/2011
Wonjin SUNG	11/23/2011
Jaewon CHANG	11/23/2011
Jun-Ho JO	11/21/2011
Dong-Uk LEE	11/23/2011
Jaewon KIM	11/23/2011
Ki Jun KIM	11/21/2011

RECEIVING PARTY DATA

Name:	LG Electronics Inc.
Street Address:	20, Yeouido-dong, Yeongdeungpo-gu
City:	Seoul
State/Country:	REPUBLIC OF KOREA

Name:	INDUSTRY UNIVERSITY COOPERATION FOUNDATION, SOGANG UNIVERSITY
Street Address:	Sogang University, 1-1, Sinsu-Dong, Mapo-Gu
City:	Seoul
State/Country:	REPUBLIC OF KOREA

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13378038

CORRESPONDENCE DATA

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PATENT
REEL: 027386 FRAME: 0922

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ATTORNEY DOCKET NUMBER:	2101-5156
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NAME OF SUBMITTER:	Harry S. Lee
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Total Attachments: 2 source=2101-5156-Assignment#page1.tif source=2101-5156-Assignment#page2.tif
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ASSIGNMENT

- | | | |
|--|---|--|
| (1-8) <i>Insert Name(s) of Inventor(s)</i> | (1) Byoung-Hoon KIM
(2) Wonjin SUNG
(3) Jaewon CHANG
(4) Jun-Ho JO | (5) Dong-Uk LEE
(6) Jaewon KIM
(7) Ki Jun KIM
(8) |
|--|---|--|
- 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) <i>Insert name(s) of Assignee(s)</i> | (9) LG ELECTRONICS INC.,
INDUSTRY UNIVERSITY COOPERATION FOUNDATION, SOGANG UNIVERSITY |
| (10) <i>Insert state(s) of Incorporation of Assignee(s)</i> | (10) Republic of Korea,
Republic of Korea |
| (11) <i>Insert address(s) of Assignee(s)</i> | (11) 20, Yeouido-Dong, Yeongdeungpo-Gu, Seoul, Korea,
(12) Sogang University, 1-1, Sinsu-Dong, Mapo-Gu, Seoul, Korea
(13) |
| (12) <i>Insert identification of Invention, such as Title, Case Number or Foreign Application Number</i> | (14) METHOD AND APPARATUS FOR DATA TRANSMISSION BASED ON DISTRIBUTED DISCRETE POWER CONTROL IN COOPERATIVE MULTI-USER MULTI-INPUT MULTI-OUTPUT SYSTEM
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. |
| (13) <i>Insert Date of Signing of Application</i> | (13) on even date herewith |

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 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: <u>2011/11/21</u>	Signature of Inventor: <u>[Signature]</u>
Date: <u>11/23/2011</u>	Signature of Inventor: <u>[Signature]</u>
Date: <u>11/23/2011</u>	Signature of Inventor: <u>[Signature]</u>
Date: <u>21 Nov. 2011</u>	Signature of Inventor: <u>[Signature]</u>
Date: <u>11/23/2011</u>	Signature of Inventor: <u>[Signature]</u>
Date: <u>11/23/2011</u>	Signature of Inventor: <u>[Signature]</u>
Date: <u>2011/11/21</u>	Signature of Inventor: <u>2.1.13</u>