

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>Bin-Chul Ihm</td> <td>04/23/2010</td> </tr> <tr> <td>Sung-Ho Park</td> <td>04/23/2010</td> </tr> <tr> <td>Seung-Hyun Kang</td> <td>04/23/2010</td> </tr> <tr> <td>Wook-Bong Lee</td> <td>04/26/2010</td> </tr> <tr> <td>Moon-Il Lee</td> <td>04/23/2010</td> </tr> </tbody> </table>		Name	Execution Date	Bin-Chul Ihm	04/23/2010	Sung-Ho Park	04/23/2010	Seung-Hyun Kang	04/23/2010	Wook-Bong Lee	04/26/2010	Moon-Il Lee	04/23/2010
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<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		
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CORRESPONDENCE DATA													
Fax Number: 2136232211 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> Email: patent@lhlaw.com Correspondent Name: LEE, HONG, DEGERMAN, KANG & WAIMEY Address Line 1: 660 S. FIGUEROA STREET Address Line 4: Los Angeles, CALIFORNIA 90017													
ATTORNEY DOCKET NUMBER:	2101-3811C1												
NAME OF SUBMITTER:	David G. Majdali												
Signature:	/David G. Majdali/												

Date:

07/31/2013

Total Attachments: 2

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ASSIGNMENT

(1-5) Insert Name(s) of Inventor(s)	(1) Bin-Chul IHM (2) Sung-Ho PARK (3) Seung-Hyun KANG (4) Wook-Bong LEE (5) Moon-II LEE	(5) (6) (7) (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) Insert name of Assignee	(9) LG ELECTRONICS INC.	
(10) Insert state of Incorporation of Assignee	(10) Republic of Korea	
(11) Insert address of Assignee	(11) 20 Yeouido-dong Yeongdeungpo-gu Seoul Republic of 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) MIMO CODEBOOKGENERATION	
	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) Insert Date of Signing of Application	(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.

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Attorney Docket No.: 2101-3811

The undersigned hereby appoints the ATTORNEYS ASSOCIATED WITH CUSTOMER NO. 035864 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: Apr 23, 2010 Signature of Inventor: [Signature]
Date: April 23, 2010 Signature of Inventor: [Signature]
Date: Apr. 24, 2010 Signature of Inventor: [Signature]
Date: April 26, 2010 Signature of Inventor: [Signature]
Date: April 23rd, 2010 Signature of Inventor: [Signature]