

PATENT ASSIGNMENT

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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>Jin Sam KWAK</td> <td>07/09/2009</td> </tr> <tr> <td>Hong Won PARK</td> <td>07/10/2009</td> </tr> <tr> <td>Seung Hee HAN</td> <td>07/09/2009</td> </tr> <tr> <td>Min Seok NOH</td> <td>07/09/2009</td> </tr> <tr> <td>Yeong Hyeon KWON</td> <td>07/09/2009</td> </tr> <tr> <td>Hyun Woo LEE</td> <td>07/09/2009</td> </tr> <tr> <td>Dong Cheol KIM</td> <td>07/09/2009</td> </tr> <tr> <td>Jae Hoon CHUNG</td> <td>07/09/2009</td> </tr> </tbody> </table>		Name	Execution Date	Jin Sam KWAK	07/09/2009	Hong Won PARK	07/10/2009	Seung Hee HAN	07/09/2009	Min Seok NOH	07/09/2009	Yeong Hyeon KWON	07/09/2009	Hyun Woo LEE	07/09/2009	Dong Cheol KIM	07/09/2009	Jae Hoon CHUNG	07/09/2009
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Dong Cheol KIM	07/09/2009																		
Jae Hoon CHUNG	07/09/2009																		
RECEIVING PARTY DATA																			
Name:	LG Electronics Inc.																		
Street Address:	20, Yeouido-dong, Yeongdeungpo-gu																		
City:	Seoul																		
State/Country:	REPUBLIC OF KOREA																		
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>12594159</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12594159														
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CORRESPONDENCE DATA																			
Fax Number:	(703)205-8050																		
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>																			
Phone:	703-205-8000																		
Email:	abebg@bskb.com																		
Correspondent Name:	Birch, Stewart, Kolasch & Birch, LLP																		
Address Line 1:	P. O. Box 747																		
Address Line 4:	Falls Church, VIRGINIA 22040-0747																		
ATTORNEY DOCKET NUMBER:	5438-0162PUS1																		

CH \$40.00 12594159

500982072

PATENT
REEL: 023336 FRAME: 0678

NAME OF SUBMITTER:

Esther H. Chong

Total Attachments: 4

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BIRCH, STEWART, KOLASCH & BIRCH, LLP

UNITED STATES PATENT RIGHTS, OR
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ASSIGNMENT

Application No. 12/594,159 Filed 9/30/2009

Insert Name(s) of Inventor(s) *****(Given Name FAMILY NAME (ALL CAPS))*****

WHEREAS, KWAK, Jin Sam, PARK, Hong Won, HAN, Seung Hee, NOH, Min Seok, KWON, Yeong Hyeon, LEE, Hyun Woo, KIM, Dong Cheol, CHUNG, Jae Hoon (hereinafter designated as the undersigned) has (have) invented certain new and useful improvements in:

Insert Title of Invention **METHOD FOR TRANSMITTING UPLINK CONTROL SIGNALS IN WIRELESS COMMUNICATION SYSTEM**

for which an application for Letters Patent of the United States of America has been executed by the undersigned (except in the case of a provisional application)

Insert Date of Signing of Application on 7/9/2009 and 7/10/2009; and

Insert Name of Assignee **WHEREAS, LG Electronics Inc.**
Insert Address of Assignee **of 20, Yeouido-dong, Yeongdeungpo-gu, Seoul 150-721 Republic of Korea**

its heirs, successors, legal representatives and assigns (hereinafter designated as the Assignee) is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent(s) that may be granted therefor in the United States of America and

CHECK BOX IF APPROPRIATE **in any foreign countries.**

NOW, THEREFORE, in consideration of the sum of Ten Dollars (\$10.00) to the undersigned in hand paid, the receipt of which is hereby acknowledged, and other good and valuable consideration, the undersigned has (have) sold, assigned and transferred, and by these presents does sell, assign and transfer unto said Assignee the full and exclusive right to the said invention in the United States of America, its territories, dependencies and possessions and the entire right, title and interest in and to any and all Letters Patent(s) which may be granted therefor in the United States of America, its territories, dependencies and possessions, and if the box above is designated, in any and all foreign countries;

and to any and all divisions, reissues, continuations, conversions and extensions thereof for the full term or terms for which the same may be granted.

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional, conversion or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree (s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division, conversion or reissue thereof or Letter Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

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

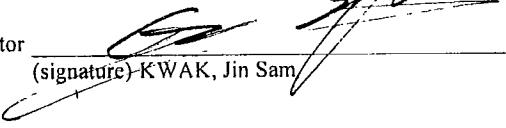
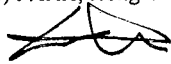

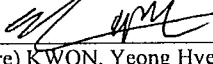
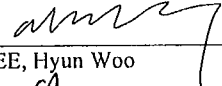
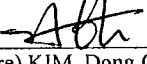
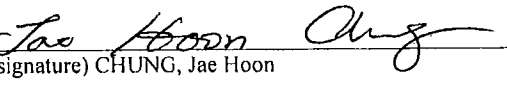
The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States of America patent(s) or a grant of a valid United States of America and any foreign patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorize(s) and request(s) the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patents resulting from said application or any continuing, divisional conversion or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) the full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the law firm of Birch, Stewart, Kolasch & Birch, LLP 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 U.S. Patent and Trademark Office for recordation of this document.

The undersigned hereby covenant(s) that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date <u>July 9th 2009</u>	Name of Inventor <u></u> (signature) KWAK, Jin Sam
Date _____	Name of Inventor _____ (signature) PARK, Hong Won
Date <u>July 24 2009</u>	Name of Inventor <u></u> (signature) HAN, Seung Hee
Date <u>07-09-2009</u>	Name of Inventor <u></u> (signature) NOH, Min Seok
Date <u>07-09-2009</u>	Name of Inventor <u></u> (signature) KWON, Yeong Hyeon
Date <u>07-09-2009</u>	Name of Inventor <u></u> (signature) LEE, Hyun Woo
Date <u>07-09-2009</u>	Name of Inventor <u></u> (signature) KIM, Dong Cheol
Date <u>July 9th, 2009</u>	Name of Inventor <u></u> (signature) CHUNG, Jae Hoon

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Date _____, Name of Inventor _____
(signature) KWAK, Jin Sam

Date 10 July 2009, Name of Inventor [Signature]
(signature) PARK, Hong Won

Date _____, Name of Inventor _____
(signature) HAN, Seung Hee

Date _____, Name of Inventor _____
(signature) NOH, Min Seok

Date _____, Name of Inventor _____
(signature) KWON, Yeong Hyeon

Date _____, Name of Inventor _____
(signature) LEE, Hyun Woo

Date _____, Name of Inventor _____
(signature) KIM, Dong Cheol

Date _____, Name of Inventor _____
(signature) CHUNG, Jae Hoon