

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Hak Seong KIM	05/25/2011
Byoung Hoon KIM	05/25/2011
Han Byul SEO	05/25/2011
Dae Won LEE	05/25/2011
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	
Property Type	Number
Application Number:	13148389
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NAME OF SUBMITTER:	Esther H. Chong
Total Attachments: 2 source=Assignment 5438-0242PUS1#page1.tif source=Assignment 5438-0242PUS1#page2.tif	

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PATENT
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BIRCH, STEWART, KOLASCH & BIRCH, LLPUNITED STATES PATENT RIGHTS, OR
UNITED STATES PLUS ALL FOREIGN PATENT RIGHTS**ASSIGNMENT**Application No. 13/148,389 Filed August 8, 2011Insert Name(s) of Inventor(s) ***** (Given Name FAMILY NAME (ALL CAPS)) *****WHEREAS, KIM, Hak Seong, KIM, Byoung Hoon, SEO, Han Byul and LEE, Dae Won
(hereinafter designated as the undersigned) has (have) invented certain new and useful improvements
in:Insert Title of Invention **METHOD AND APPARATUS FOR TRANSMITTING UPLINK CONTROL INFORMATION**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 May 25, 2011; andInsert 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 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.

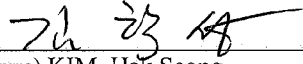
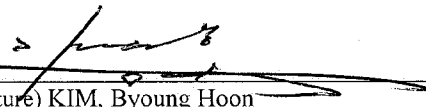
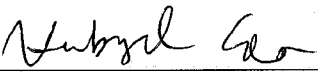
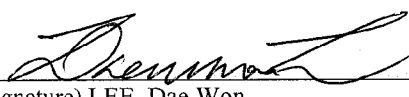
The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States of America patent(s) or a grant of a valid United States of America and any foreign patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully 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>2011. 5. 25</u> ,	Name of Inventor <u></u> (signature) KIM, Hak Seong
Date <u>05/25/2011</u> ,	Name of Inventor <u></u> (signature) KIM, Byoung Hoon
Date <u>May 25, 2011</u> ,	Name of Inventor <u></u> (signature) SEO, Han Byul
Date <u>May 25, 2011</u> ,	Name of Inventor <u></u> (signature) LEE, Dae Won