#### PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
Dae Won LEE	01/10/2011
Hak Seong KIM	01/10/2011
Byoung Hoon KIM	01/10/2011
Ki Jun KIM	01/01/2011
Eun Sun KIM	01/06/2011

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#### PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	13006879	

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PATENT REEL: 025660 FRAME: 0140 13006

Total Attachments: 2

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PATENT REEL: 025660 FRAME: 0141

# BIRCH, STEWART, KOLASCH & BIRCH, LLP

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## ASSIGNMENT

Application N	Vo.	13/006,879	Filed _	January 14, 2011
Insert Name(s)		***(Given Name FAMIL)	Y NAME (ALL CA	PS))***
of Inventor(s)	WHE (herei	REAS, Dae Won LEE, Hak nafter designated as the undersi	Seong KIM, gned) has (hav	Byoung Hoon KIM, Ki Jun KIM, Eun Sun KIM e) invented certain new and useful improvements in:
Insert Title of Invention				
		signed (except in the case of a p	rovisional appl	
Insert Date of Signing of	On	January 10, 20 January 10, 2	11, January 2011 and Jar	10, 2011, January 10, 2011, nuary 6, 2011, respectively ; and
Application Insert Name of Assignee Insert Address of Assignee	WHE	REAS, LG ELECTRONICS II	NC,	
	its hei of acq	ulting the entire right, title and	ives and assign interest in and	ns (herematter designated as the Assignee) is desirous I to said invention and in and to any Letters Patent(s)
СНЕСК ВОХ		lay be granted therefor in the Ur n any foreign countries.	iited States of .	America and
IF APPROPRIATE	the ur transfe Ameri and al depen any an	ndersigned has (have) sold, ass er unto said Assignee the full ica, its territories, dependencies Il Letters Patent(s) which may dencies and possessions, and if	igned and tran and exclusive and possessio be granted the the box above inuations, con	eration, the receipt of which is hereby acknowledged, asferred, and by these presents does sell, assign and a right to the said invention in the United States of and the entire right, title and interest in and to any arefor in the United States of America, its territories, is designated, in any and all foreign countries; and to versions and extensions thereof for the full term or

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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 _	10/01/11	Name of Inventor	(signature) Dae Won LEE
Date _	10/01/11	Name of Inventor	つんない (signature) Hak Seong KIM
Date	10/01/11	Name of Inventor	(signature) Byoung Hoon KIM
Date	1./01/11		(signature) Ki Jun KIM
Date	06/01/11	Name of Inventor	(signature) Eun Sun KIM
Date _	,	Name of Inventor	(signature)

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