### PATENT ASSIGNMENT

### Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
Su-Cheong KIM	03/15/2010
Jong-Min SHIN	01/22/2010
Deok-Hyun YOUN	03/12/2010
Jae-Hyun SOH	02/19/2010
Cheol-Hwan KIM	02/22/2010
Won-Young CHUNG	03/11/2010
Hoon-Bong LEE	02/22/2010

#### **RECEIVING PARTY DATA**

Name:	LG Electronics Inc.	
Street Address:	20, Yoido-dong, Yongdungpo-ku,	
City:	Seoul	
State/Country:	REPUBLIC OF KOREA	
Postal Code:	150-010	

#### PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12673959

#### **CORRESPONDENCE DATA**

Fax Number: (703)205-8050

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 703-205-8000 Email: sdomnars@bskb.com

Correspondent Name: Birch, Stewart, Kolasch & Birch, LLP

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Address Line 4: Falls Church, VIRGINIA 22040-0747

ATTORNEY DOCKET NUMBER: 5145-0135PUS1

**PATENT** 

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NAME OF SUBMITTER:	James T. Eller, Jr.
Total Attachments: 10 source=assignment#page1.tif source=assignment#page2.tif source=assignment#page3.tif	
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source=assignment#page10.tif	

# BIRCH, STEWART, KOLASCH & BIRCH, LLP

UNITED STATES PATENT RIGHTS, OR UNITED STATES PLUS ALL FOREIGN PATENT RIGHTS

### **ASSIGNMENT**

Application No.	12/673,939	Filed	rebruary 17, 2010
lusert Name(s) of Inventor(s)		NG; Hoon-Bong, LEE (hereina	YOUN; Jac-Hyun, SOH; Cheol- ifter designated as the undersigned)
Insert Title of Invention	SUPERCOOLING METHOD AN	D SUPERCOOLING APPAR	ATUS
	for which an application for Letter undersigned (except in the case of a		America has been executed by the
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Application Insert Name of Assignee	WHEREAS, LG Electronics, Inc.		
Insert Address	of 20, Yoldo-dong, Yongdungpo-l	ku, Scoul, 150-010, REPUBLIC	OF KOREA
of Assignee  CHECK BOX		it, title and interest in and to said	ter designated as the Assignce) is I invention and in and to any Letters on and
IF APPROPRIATE	paid, the receipt of which is here undersigned has (have) sold, assist transfer unto said Assignee the ful America, its territories, dependence any and all Letters Patent(s) whi	by acknowledged, and other go gned and transferred, and by the ill and exclusive right to the sai- ies and possessions and the enti- ch may be granted therefor in	\$10.00) to the undersigned in hand and valuable consideration, the nese presents does sell, assign and dinvention in the United States of tre right, title and interest in and to the United States of America, its designated, in any and all foreign
	and to any and all divisions, reiss term or terms for which the same m		and extensions thereof for the full

Page 1 of 2

Attorney Docket No.

5145-0135PUS1

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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.

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

Date .	2010-3-15	٠	Name of Inventor	김구경 (signature) Su-Cheong, KIM
Date _	<del>* *</del>	٠	Name of Inventor	(signature) Jong-Min, SHIN
Date _		ر	Name of Inventor	(signature) Deok-Hyun, YOUN
Ďate "	<u>, , , , , , , , , , , , , , , , , , , </u>	ر	Name of Inventor	(signature) Jac-Hyun, SOH
Date	2010-2-22	و	Name of Inventor	(signature) Cheol-Hwan, KIM
Date _		,	Name of Inventor	(signature) Won-Young, CHUNG
Date <sub>-</sub>	2010-2-22	٠	Name of Inventor	(signature) Hoon-Bong, LEE

Page 2 of 2

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Birch, Stewart, Kolasch & Birch, LLP

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UNITED STATES PATENT RIGHTS, OR UNITED STATES PLUS ALL FOREIGN PATENT RIGHTS

### **ASSIGNMENT**

Application No.	12/073,939	Filed	rebluary 17, 2010		
Insert Name(s) of Inventor(s)		UNG; Hoon-Bong, LEE (hereina	YOUN; Jac-Hyun, SOH; Cheol- fter designated as the undersigned)		
Insert Title of Invention	SUPERCOOLING METHOD A	AND SUPERCOOLING APPARA	ATUS		
	for which an application for Lette undersigned (except in the case of		America has been executed by the		
Insert Date of Signing of	on3/15/2010; 1/22/2010; 3/	/12/2010; 2/19/2010; 2/22/2010; 3/	11/2010; 2/22/2010 ; and		
Application Insert Name of Assignee	WHEREAS, LG Electronics, Inc.				
Insert Address of Assignee	of 20, Yoido-dong, Yongdungpo-ku, Scoul, 150-010, REPUBLIC OF KOREA				
CHECK BOX IF APPROPRIATE	desirous of acquiring the entire rig		er designated as the Assignce) is invention and in and to any Letters a and		
IF APPROPRIATE	paid, the receipt of which is her undersigned has (have) sold, ass transfer unto said Assignee the fi America, its territories, dependen any and all Letters Patent(s) wh	reby acknowledged, and other go- tigned and transferred, and by the full and exclusive right to the said cies and possessions and the enti- tich may be granted therefor in	\$10.00) to the undersigned in hand od and valuable consideration, the ese presents does sell, assign and invention in the United States of re right, title and interest in and to the United States of America, its designated, in any and all foreign		
	and to any and all divisions, reis term or terms for which the same i		and extensions thereof for the full		

Page 1 of 2

Attorney Docket No. 5145-0135PUS1

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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.

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

Date,	Name of Inventor
Date 1/22/2010	Name of Inventor  (signature) Su-Cheong, KIM  Name of Inventor  (signature) Jong-Min, SHIN
Date,	Name of Inventor (signature) Deok-Hyun, YOUN
Date,	Name of Inventor (signature) Jae-Hyun, SOH
Date,	Name of Inventor (signature) Cheel-Hwan, KIM
Date	Name of Inventor (signature) Won-Young, CHUNG
Date,	Name of Inventor

Page 2 of 2

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## BIRCH, STEWART, KOLASCH & BIRCH, LLP

UNITED STATES PATENT RIGHTS, OR UNITED STATES PLUS ALL FOREIGN PATENT RIGHTS

## ASSIGNMENT

Application No.	12/673,959	riica	February 17, 2010	
Insert Name(s) of Inventor(s)	WHEREAS, Su-Cheong, KIM; Jong- Hwan, KIM; Won-Young, CHUNG; has (have) invented certain new and usef	Hoon-Bong, LEE (hereinat		
Insert Title of Invention	SUPERCOOLING METHOD AND S	UPERCOOLING APPARA	ATUS	
	for which an application for Letters Pat undersigned (except in the case of a prov		America has been executed by the	
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Application Insert Name of Assignee	WHEREAS, LG Electronics, Inc.			
Insert Address of Assignee	of 20, Yoido-dong, Yongdungpo-ku, Scoul, 150-010, REPUBLIC OF KOREA			
СНЕСК ВОХ	its heirs, successors, legal representati desirous of acquiring the entire right, titl Patent(s) that may be granted therefor in x in any foreign countries.	e and interest in and to said	invention and in and to any Letters	
IF APPROPRIATE	NOW, THEREFORE, in consideration of paid, the receipt of which is hereby as undersigned has (have) sold, assigned transfer unto said Assignee the full and America, its territories, dependencies are any and all Letters Patent(s) which m territories, dependencies and possession countries;	knowledged, and other got and transferred, and by the exclusive right to the said and possessions and the enti- ay be granted therefor in	od and valuable consideration, the ese presents does sell, assign and invention in the United States of re right, title and interest in and to the United States of America, its	
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Date	. Name of Inventor		
*** *** ****		(signature) Su-Choong, KIM	
Date	, Name of Inventor		
		(signature) Jong-Min, SIJIN	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Date	Name of Inventor	(signature) Deok-Hyun, YOUN	
		(signature) Deok-Hyun, YOUN	
Date	. Name of Inventor		
		(signature) Jae-Hyun, SOH	
Date	. Name of Inventor	(signature) Cheol-Hwan, KIM	-1.5.6 -1H U1
		(signature) Cheol-Hwan, KIM	
Date	. Name of Inventor	(signature) Won-Young, CHUNG	
		(signature) Won-Young, CHUNG	
Date	, Name of Inventor	(signature) Hoon-Bong, LEE	
		(signature) Hoon-Bong, LEE	
	Page 2 of 2		(why has )
Birch Stewart, (Colpach & Birch, LLP			JTE/smt

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Attorney Docket No. 5145-0135PUS1

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		3)	signature) Su-Cheong, KIM	
Date	,	Name of Inventor		
		(8	ignature) Jong-Min, SHIN	
Date	•	Name of Inventor _		
		(8	ignature) Deok-Hyun, YOUN	
Date 2010-02-19	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Name of Inventor	iignature) Jac-Hyun, SOH	
		(s	ignature) Jac-Hyun, SOH	
Date		Name of Inventor	ignature) Cheol-Hwan, KIM	
		(s	ignature) Cheol-Hwan, KIM	
Date		Name of Inventor _		
		(s	ignature) Won-Young, CHUNG	
Date	•	Name of Inventor		188
		(2)	ignature) Hoon-Bong, LEE	

Page 2 of 2

Birch, Stewart, Kolasch & Birch, LLP

JTE/smt

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RECORDED: 04/16/2010

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Date,	Name of Inventor	(signature) Jac-Hyun, SOII
Date	Name of Inventor	(signature) Cheol-Hwan, KIM
Date 2010/03/11	Name of Inventor	(signature) Won-Young, CHUNG
Date	Name of Inventor	(signature) Hoon-Bong, LEE
Birch Stewart, Kolasch & Birch. (LLP	Page 2 of 3	JTE/amt

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