### 503153471 01/27/2015

### PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
MIN CHOON PARK	12/08/2014
SE HWAN SON	12/08/2014
YEON KEUN LEE	12/08/2014
YONG SIK AHN	12/08/2014
JUNG DOO KIM	12/08/2014
JI HEE KIM	12/10/2014
SANG JUN PARK	12/08/2014
YONG NAM KIM	12/08/2014

#### **RECEIVING PARTY DATA**

Name:	LG CHEM, LTD.
Street Address:	20 YOIDO-DONG, YOUNGDUNGPO-GU
City:	SEOUL
State/Country:	KOREA, REPUBLIC OF
Postal Code:	150-721

#### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	14606759

#### **CORRESPONDENCE DATA**

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ATTORNEY DOCKET NUMBER:	29137.01702.US00
NAME OF SUBMITTER:	MATTHEW T. BAILEY
SIGNATURE:	/Matthew T. Bailey/

PATENT 503153471 REEL: 034824 FRAME: 0188

DATE SIGNED:	01/27/2015
Total Attachments: 4	
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source=Assignment#page4.tif	

PATENT REEL: 034824 FRAME: 0189

# **Assignment of Application**

WHEREAS, I (W)	E)   Min Choon P	ARK, Se Hwan SON, Yeon Ket	an LEE
Yong Sik AHN, Jur	ag Doo KIM, Ji He	ee KIM, Sang Jun PARK and	, respectively,
Yong Nam KIM			
have invented certain	n new and useful in	provements in:	
SUI	SSTRATE FOR O	RGANIC ELECTRONIC DEV	ICE
for which an applica	tion for Letters Pate	ent was executed on	
(Application No.		, Filed	), and
WHEREAS,	LG CHEM, LTD		
1 3		E") having a place of business at: l 150-721, Republic of Korea	

is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I (WE), by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries and the entire right, title and interest in and to any and all Letters patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.

I (WE) hereby authorize and request the Patent Office Officials in the United States and Its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my (our) entire right, title and interest in and to the same, for the sole use and behalf of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me (us) had this Assignment and sale not been made.

Further, I (WE) agree that I (WE) will communicate to said ASSIGNEE or its (his) representatives any facts known to me (us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

The undersigned hereby grant(s) the firm of McKenna Long & Aldridge LLP, Attorneys at Law, 1900 K Street, N.W., Washington, D.C. 20006 the power to insert on this assignment any further identification, including the application number and filing date, 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.

Dates	Dec A, 2014	me
. •		(Signature of Inventife) PARK, Min Choon
Date:	2014.12.8	Jon Holling Comments of the Comment
		(Signature of Javenber) SON, Se Hwan
Date:	2014, 12, 8	玄 )社 桂。 (Signature of inventor)
		LEE, Yeon Keun
Date:	2014. [2.8	Of Long (Signature of laventor)
		AHN, Yong Sik
Date:	2014. 12-8	(Signature of inventor)
		KIM, Jung Doo
Date:		
		(Signature of Inventor)  KIM, Ji Hee
Date: _	20/4/12.8	(Signatification for Inventor)
		PARK, Sang Jun
Date: _	2014. 12.8	
		(Signature of Inventor) KIM, Yong Nam

McKenna Long & Aldridge LLP Attorneys At Law 1900 K Street, N.W. Washington, D.C. 20006

REEL: 034824 FRAME: 0191

# **Assignment of Application**

WHEREAS, I (WE)	Min Choon PARK, Se Hwan SON, Yeon Keun	n LEE
Yong Sik AHN, Jung Yong Nam KIM	Doo KIM, Ji Hee KIM, Sang Jun PARK and	, respectively,
have invented certain r	new and useful improvements in:	······
SUBS	TRATE FOR ORGANIC ELECTRONIC DEVI	CE
for which an application	n for Letters Patent was executed on	
(Application No.	, Filed	), and
WHEREAS, L	G CHEM, LTD.	

(Application No.	, Filed ), and	
WHEREAS,	LG CHEM , LTD.	
(hereinafter referred to as "ASSIGNEE") having a place of business at:		
20 Yoido-dong, Youngdungpo-gu, Seoul 150-721, Republic of Korea		

is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I (WE), by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries and the entire right, title and interest in and to any and all Letters patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.

I (WE) hereby authorize and request the Patent Office Officials in the United States and Its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my (our) entire right, title and interest in and to the same, for the sole use and behalf of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me (us) had this Assignment and sale not been made.

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The undersigned hereby grant(s) the firm of McKenna Long & Aldridge LLP, Attorneys at Law, 1900 K Street, N.W., Washington, D.C. 20006 the power to insert on this assignment any further identification, including the application number and filing date, 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:	
	(Signature of Inventor) PARK, Min Choon
Date:	(Signature of Inventor) SON, Se Hwan
Date:	
	(Signature of Inventor)  LEE, Yeon Keun
Date:	(Signature of Inventor) AHN, Yong Sik
Date:	(Signature of Inventor) KIM, Jung Doo
Date: <u>7.014</u> , 12., 10.	(Signature of Inventor) KIM, Ji Hee
Date:	(Signsture of inventor) PARK, Sang Jun
Dare:	(Signature of Inventor)  KIM, Yong Nam

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