PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT2780226

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
HYUCK-JU KWON	01/08/2014
SAN-AK HWANG	03/07/2014
DONG-GIL LEE	03/10/2014
CHURL-YOUNG PARK	01/08/2014

RECEIVING PARTY DATA

Name:	LG CHEM, LTD.
Street Address:	128, YEOUI-DAERO
Internal Address:	YEONGDEUNGPO-GU
City:	SEOUL
State/Country:	KOREA, REPUBLIC OF
Postal Code:	150-721

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14222127

CORRESPONDENCE DATA

Fax Number: (202)496-7756

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via

US Mail.

Phone: 2024967106

Email: mlaip@mckennalong.com

Correspondent Name: MCKENNA LONG & ALDRIDGE LLP

Address Line 1: 1900 K STREET NW

Address Line 2: ATTORNEY DOCKET NO. 29137.00933.US21
Address Line 4: WASHINGTON, DISTRICT OF COLUMBIA 20006

ATTORNEY DOCKET NUMBER:	29137.00933.US21
NAME OF SUBMITTER:	MARK R. KRESLOFF
SIGNATURE:	/Mark R. Kresloff #42766/
DATE SIGNED:	03/21/2014

Total Attachments: 8

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PATENT REEL: 032500 FRAME: 0101

WHEREAS,	I (WE)	WE) KWON, Hyuck-Ju; Hwang, San-Ak; LEE, Dong-Gil; PARK, Churl-Young			
		• • • • •			, respectively,
have invented cert	ain new a	and useful improveme	ents in:		
		RING SUPPORTE PREPARING POL			CENE CATALYST AND ING THE SAME
for which an appli	cation for	Letters Patent was e	xecuted o	on	
(Application No.			, Filed), and
WHEREAS,	LG CH	EM, LTD.			
,		ASSIGNEE") having gpo-gu, Seoul 150-72	-		

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.

Date: Jan. 8, 2014	H, J, Kwan
	(Signature of Inventor) KWON, Hyuck-Ju
Date;	(Signature of Inventor)
	Hwang, San-Ak
Date:	
	(Signature of Inventor) LEE, Dong-Gil
Date:	
	(Signature of Inventor) PARK, Churl-Young

McKenna Long & Aldridge LLP

Attorneys At Law 1900 K Street, N.W. Washington, D.C. 20006

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		• • • • •			, respectively,
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		RING SUPPORTE PREPARING POL			CENE CATALYST AND ING THE SAME
for which an appli	cation for	Letters Patent was e	xecuted o	on	
(Application No.			, Filed), and
WHEREAS,	LG CH	EM, LTD.			
,		ASSIGNEE") having gpo-gu, Seoul 150-72	-		

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Date:		
	(Signature of Inventor)	
	KWON, Hyuck-Ju	
Date:		
	(Signature of Inventor)	
	Hwang, San-Ak	
Date:		
	(Signature of Inventor)	
	LEE, Dong-Gil	
Date: 01/08/2014	C.Y. Tark	
•	(Signature of Inventor)	
	PARK, Churl-Young	

McKenna Long & Aldridge LLP

Attorneys At Law 1900 K Street, N.W. Washington, D.C. 20006

have invented certain new and useful improvements in: METHOD FOR PREPARING SUPPORTED METALLOCENE CATALYS METHOD FOR PREPARING POLYOLEFIN USING THE SAME	ectively,
METHOD FOR PREPARING SUPPORTED METALLOCENE CATALYS	T AND
	T AND
for which an application for Letters Patent was executed on	
(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;

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PATENT: 50697435.1
REEL: 032500 FRAME: 0106

enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

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Date:	
	(Signature of Inventor)
	KWON, Hyuck-Ju
Date:	(Cinathan & Inventor)
	(Signature of Inventor)
	Hwang, San-Ak
Date: Murch 10, 2014	(Signature of Inventor) LEE, Dong-Gil
	(Signature of Inventor)
	LEE, Dong-Gil
Date:	
	(Signature of Inventor)
	PARK, Churl-Young

McKenna Long & Aldridge LLP

Attorneys At Law 1900 K Street, N.W. Washington, D.C. 20006

Docket No.:	

WHEREAS, I (WE)	KWON, Hyuck-Ju; Hwang, San-A Churl-Young	Ak; LEE, Dong-Gil; PARK,		
		, respectively,		
have invented certain new	and useful improvements in:			
METHOD FOR PREPARING SUPPORTED METALLOCENE CATALYST AND METHOD FOR PREPARING POLYOLEFIN USING THE SAME				
for which an application f	or Letters Patent was executed on			
· · · · · · · · · · · · · · · · · · ·				
(Application No.	, Filed), and		
WHEREAS, LG C	HEM, LTD.			
	"ASSIGNEE") having a place of bus ingpo-gu, Seoul 150-721, Republic o			

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.

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PATENT_{50697435.1} REEL: 032500 FRAME: 0108 enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

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Date;	
	(Signature of Inventor) KWON, Hyuck-Ju
Date: 7, Mar, 2014	(Signature of Inventor) Hwang, San-Ak
Date;	(Signature of Inventor) LEE, Dong-Gil
Date:	(Signature of Inventor) PARK_Churl-Young

McKenna Long & Aldridge LLP Attorneys At Law

1900 K Street, N.W. Washington, D.C. 20006

PATEN(T50697435.1 **REEL: 032500 FRAME: 0109**

RECORDED: 03/21/2014