504885141 04/25/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4931882

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MIYEON HAN	11/03/2016
DONG HOON LEE	11/03/2016
JUNGOH HUH	11/03/2016
BOONJAE JANG	11/03/2016
DONG UK HEO	11/03/2016
MIN WOO JUNG	11/03/2016

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:	07336

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15770606

CORRESPONDENCE DATA

Fax Number: (908)654-7866

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: (908) 654-5000

Email: assignment@lernerdavid.com

Correspondent Name: LERNER, DAVID, LITTENBERG, KRUMHOLZ & MENTLIK, LLP

Address Line 1: 600 SOUTH AVENUE WEST

Address Line 4: WESTFIELD, NEW JERSEY 07090

ATTORNEY DOCKET NUMBER:	LGCHEM 3.3F-1414	
NAME OF SUBMITTER: KATHLEEN REYNOLDS		
SIGNATURE: /Kathleen Reynolds/		
DATE SIGNED:	04/25/2018	

PATENT 504885141 REEL: 045633 FRAME: 0030

Total Attachments: 2

source=LGCHEM 3.3F-1414 ()#page1.tif source=LGCHEM 3.3F-1414 ()#page2.tif

PATENT REEL: 045633 FRAME: 0031

WARNING: According to 37 C.F.R. § 1.63(c). "(a) person may not execute an oath or declaration unless the person has reviewed and understands the		DESIGN APPLICATIONS	Attorney Docket Number: P2016-3210PCUS		
The attached application, or The attached application or PCT international application number	ORGANIC LIGHT-EMITTING DEVICE				
The above-identified application was made or authorized to be made by ma/us. If we believe that I am the original inventor or an original joint inventor of a claimed invention in the application. If we hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1601 by fine or imprisonment of not more than five (5) years, or both. WHEREAS, the undersigned as a sole inventor (if only one name is listed below) or as a joint inventor (if plural names are listed below) has invented certain new and useful improvements in the application identified above. AND, WHEREAS LG Chem, Ltd., (hereinafter referred to as assignes), a corporation of Korea whose mailing address is 120, Yeoul-disero; Yeongdeungpo-gu; Seoul; REPUBLIC OF KOREA (07336 is destrous of acquiring the entire right, title and interest in the same. NOW, THEREFORE, in consideration of the sum of one dollar, the receipt wherof is acknowledged, and other good and valuable consideration, the undersigned hereby sell(s), assign(e) and set(s) over to said assignee mylour entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent applications and all orighned, divisional, continuation, substitute or reissue applications and patents applied or or granted therefor in the United States of America and all other countries, for said invention, including without limitation at applications and patents applied or said invention claiming priority or benefit of the efforesaid utility application pursuant to any law or treaty, and including all claims for damages by reason of past infringement with the right to sue for and collect the aeme for its own use and he use of its successors, assigns and legal representatives, and including all claims for damages by reason of past infringement with the right to use for and collect the aeme for its own use and he use of its successors, assigns and legal representatives, and including the right or	This declaration is directed to:				
i/We believe that I am the original inventor or an original joint inventor of a claimed invention in the application. I/We hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1601 by fine or imprisonment of not more than five (5) years, or both. WHEREAS, the undersigned as a sole inventor (if only one name is listed below) or as a joint inventor (if plural names are listed below) has invented certain new and useful improvements in the application identified above. AND, WHEREAS LG Chem, Ltd., (hereinafire referred to as assignee), a corporation of Korea whose mailing address is 128, Yeou-daers; Yeongdeungpo-gu; Seoul; REPUBLIC OF KOREA 07336 is destrous of acquiring the entire right, title and interest in the same. NOW, THEREFORE, in consideration of the sum of one dollar, the receipt wherof is acknowledged, and other good and valuable consideration, the undersigned hereby self(s), assign(s) and sel(s) over to said assignee my/our entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including all claims for damages by reason of past infringement with the right to such cor and collect the same for its own use and the use of its successors, assigns and legal representatives, and including the right to claim such priority or benefit and the Commissioner of Patentin and Transferment is hereform to said assigns on the patent and requested to issue all platention, to secure and deliver all original, divisional, continuation, relissue and other applications for Letters Patent on said Improvements and all assignments thereof to said assigns on terity and requested	Σ		ernational application number PCT/KR2016/012154		
i/We believe that I am the original inventor or an original joint inventor of a claimed invention in the application. I/We hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1601 by fine or imprisonment of not more than five (5) years, or both. WHEREAS, the undersigned as a sole inventor (if only one name is listed below) or as a joint inventor (if plural names are listed below) has invented certain new and useful improvements in the application identified above. AND, WHEREAS LG Chem, Ltd., (hereinafire referred to as assignee), a corporation of Korea whose mailing address is 128, Yeou-daers; Yeongdeungpo-gu; Seoul; REPUBLIC OF KOREA 07336 is destrous of acquiring the entire right, title and interest in the same. NOW, THEREFORE, in consideration of the sum of one dollar, the receipt wherof is acknowledged, and other good and valuable consideration, the undersigned hereby self(s), assign(s) and sel(s) over to said assignee my/our entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including all claims for damages by reason of past infringement with the right to such cor and collect the same for its own use and the use of its successors, assigns and legal representatives, and including the right to claim such priority or benefit and the Commissioner of Patentin and Transferment is hereform to said assigns on the patent and requested to issue all platention, to secure and deliver all original, divisional, continuation, relissue and other applications for Letters Patent on said Improvements and all assignments thereof to said assigns on terity and requested	The above-Identifier	d application was made or authorized to	be made by melus.		
WHEREAS, the undersigned as a sole inventor (if only one name is listed below) or as a joint inventor (if plural names are listed below) has invented certain new and useful improvements in the application identified above. AND, WHEREAS LG Chem, Ltd., (hereinafter referred to as assignee), a corporation of Korea whose mailing address is 129, Yeoul-daero; Yeong-deungpo-gu; Seoul; REPUBLIC OF KOREA 07336 is desirous of acquiring the entire right, title and interest in the same. NOW, THEREFORE, in consideration of the sum of one doltar, the receipt wherof is acknowledged, and other good and valuable consideration, the undersigned hereby sell(s), assign(s) and sel(s) over to said assignee my/our entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all origine), divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries for said invention, including all calium for damages by reason of past infringement with the right to sue for and collect the same for its own use and the use of its successors, assigns and legal representatives, and including all caliums for damages by reason of past infringement with the right to claim such priority or benefit end the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and undersigned for melus and or resulting therefrom to said assignee or its assigns to hereby agree and covernant without further remuneration, to execute and entire interest therein; and undersigned for melus and assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all fants known to the undersigned trippotential devisional, continuation, relissue and other applications for Letters Patent on said i					
AND, WHEREAS LG Chem, Ltd., (hereinafter referred to as assignee), a corporation of Korea whose mailing address is 128, Yooul-daerd; Yeongdeungpo-gu; Seoul; REPUBLIC OF KOREA '07336' is destrous of acquiring the entire right, title and interest in the same. NOW, THEREFORE, in consideration of the sum of one dollar, the receipt wherof is acknowledged, and other good and valuable consideration, the undersigned hereby self(s), assign(s) and self(s) over to said assignee my/our entire right, title and interest for the United States of America and all other countries in and to said invention and the aforeasid utility patent application and all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention and the aforeasid utility application for said invention calalming priority or benefit of the aforesaid utility application ground to any law or treaty, and including all claims for damages by reason of past infringement with the right to sue for and collect the same for its own use and the use of its successors, assigns and legal representatives, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all platents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for me/us and my/our legal representatives, heirs and assigns do hereby agree and coverant without further remuneration, to execute and deliver all original, divisional, continuation, relessue and other applications for Letters Patent on said improvements and all assignment thereof to said assignmee or its assigns, to communicate to add assignee or its representatives all facits known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents m	I/We hereby acknow by fine or imprisonm	viedge that any willful false statement m nent of not more than five (5) years, or b	ade in this declaration is punishable under 18 U.S.C. 1001 oth.		
NOW, THEREFORE, in consideration of the sum of one dollar, the receipt wherof is acknowledged, and other good and valuable consideration, the undersigned hereby sell(s), assign(s) and sel(s) over to said assignee my/our entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid utility applications pursuant to any law or treaty, and including all claims for damages by reason of past infringement with the right to sue for and collect the same for its own use and the use of its successors, assigns and legal representatives, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignes herein, as assignee of the entire interest therein; and the undersigned for melus and mylour legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, relissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignments thereof to said assignments thereof to said assignments and all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in whitch any of said applications or patent	WHEREAS, the und listed below) has in-	dersigned as a sole inventor (if only on vented certain new and useful improve	e name is listed below) or as a joint inventor (if plural names are ments in the application identified above.		
Valuable consideration, the undersigned hereby seli(s), assign(a) and set(s) over to said assignee mylour entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including all claims for damages by reason of past infringement with the right to use for and collect the same for its own use and the use of its successors, assigns and legal representatives, and including the right to claim such priority or benefit and including all claims for damages by reason of past infringement with the right to use for and collect the same for its own use and the use of its successors, assigns and legal representatives, and including the right to claim such priority or benefit and including the right to claim such priority or benefit and the Commissioner of Patents and Trandemarks is hereby authorized and requested to Issue all patents on said improvements or resulting therefrom to said assignee herein, as assigns of the entire interest therein; and the understgned for mefus and assigns do hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, releases and other applications for Letter Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all awful papers, make all rightful patents of the ap	128, Yeoul-daero; Yeongdeungpo-gu; Seoul; REPUBLIC OF KOREA 07336 is desirous of acquiring the entire data title				
According to 37 C.F.R. § 1.63(o), "[a] person may not execute an oath or declaration unless the person has reviewed and understands the contents of the application, including the claims, and is aware of the duty to disclose to the Office all information known to the person to be material to patentability as defined in §1.56." FULL NAME OF INVENTOR(S) Inventor one: HAN, Miyeon Date: November 3 , 2016 Signature: Han Miyeon additional inventors or a legal representative are being named on additional form(s) attached hereto.	valuable consideration, the undersigned hereby sell(s), assign(s) and sel(s) over to said assignee my/our entire right, tittle and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including all claims for damages by reason of past infringement with the right to sue for and collect the same for its own use and the use of its successors, assigns and legal representatives, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for me/us and my/our legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful patents, and to do generally everything necessary to all assignee. Its successors, assigns and commerce to other the patents.				
Inventor one: HAN, Miyeon Date: Novembor 3 , 2016 Signature: Hon + Miyeon Additional inventors or a legal representative are being named on additional form(s) attached hereto.	According to 37 C.F.R. § 1.63(c), "[a] person may not execute an oath or declaration unless the person has reviewed and understands the contents of the application, including the claims, and is aware of the duty to disclose to the Office all information known to the person to be				
Signature: Hon Miyeon Additional inventors or a legal representative are being named on additional form(s) attached hereto.	FULL NAME OF INVENTOR(S)				
Additional inventors or a legal representative are being named on additional form(s) attached hereto.	Inventor one:		Date: November 3 , 2016		
CARDOLA	Signature: Hon, Miyeon				
PLEASE SEE THE WARNINGS ON THE LAST PAGE OF THIS FORM.	Additional inventors or a legal representative are being named onadditional form(s) attached hereto.				



SUPPLEMENTAL SHEET

g		
DECLARATION AND ASSIGNMENT FOR UTILITY OR DESIGN APPLICATIONS	ADDITIONAL INVENTOR(S) Supplemental Sheet	
Inventor two: LEE, Dong Hoon	Date: Nov. 3, 20/6	
Signature: borf Hom Lee		
	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	
Inventor three: HUH, Jungoh	Date: 1/6 V . 3 - 2 - 1/6	
Signature: Jung Dh. Huch		
inventor four: JANG, Boonjae	Date: Nov. 3. 2016	
Signature: Jany, Bornjae		
Inventor five: HEO, Dang Uk	Date: Nov. 3 , 2016	
Signature: Hon, Dagus		
Inventor six; JUNG, Min Woo	Date: 100.3.20/6	
Signature: Jung Ium woo		
WARNING:		
According to 37 C.F.R. § 1.63(c), "[s] person may not execute an oath or declaration unless the person has reviewed and understands the contents of the application, including the claims, and is aware of the duty to disclose to the Office all Information known to the person to be material to patentability as defined in §1.55."		
Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioners/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2036 submitted for payment purposes are not retained in the application file and therefore are not publicly available.		

Page 2 of 2



PATENT