

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4455699

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
CLEMENT LANSALOT-MATRAS	10/24/2013
WONTAE NOH	10/24/2013
JOHO LEE	10/24/2013
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<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	15035592
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<b>ATTORNEY DOCKET NUMBER:</b>	SERIE 9649
<b>NAME OF SUBMITTER:</b>	NEVA DARE
<b>SIGNATURE:</b>	/Neva Dare/
<b>DATE SIGNED:</b>	06/12/2017
<b>Total Attachments: 1</b>	
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**Assignment of Invention**

WHEREAS WE, **Clement LANSALOT-MATRAS, Wontae NOH, and Jooho LEE**, respectively, have invented certain new and useful improvements in "Group 5 Transition Metal-Containing Compounds for Vapor Deposition of Group 5 Transition Metal-Containing Films";

WHEREAS **L'Air Liquide, Société Anonyme pour l'Etude et l'Exploitation des Procédés Georges Claude**, a French corporation having offices at 75 Quai d'Orsay, F75007 Paris, FRANCE (hereinafter referred to as "ASSIGNEE"), desires to acquire from **Clement LANSALOT-MATRAS, Wontae NOH, and Jooho LEE** the entire right, title and interest we have in and to said invention and in and to any Letters Patent that may be granted thereof in the United States and its territorial possessions and in any and all foreign countries;

NOW, THEREFORE, for valuable consideration, the receipt whereof is hereby acknowledged, we, by these presents do sell, assign and transfer unto said ASSIGNEE, effective as of the first priority date, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries, including the right to claim priority of the above-mentioned patent application(s) in patent applications filed in or for any such foreign country, 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 subsequent provisionals, non-provisionals, divisions, reissues, continuations, substitutions and renewals thereof.

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 the entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its 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 had this Assignment and sale not been made.

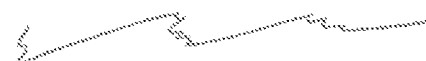
Further, we agree that we will communicate to said ASSIGNEE or its representatives any facts known to us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all non-provisional, divisional, continuation, substitute, renewal and reissue applications, execute 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 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 grants authorized representatives of the above identified ASSIGNEE the power to insert on this assignment any further identification, **INCLUDING ANY SUBSEQUENT DATE OF APPLICATION FILING AND THE APPLICATION SERIAL NUMBER**, 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.

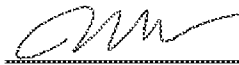
Date: 10/24/2013

  
Clement LANSALOT-MATRAS, Inventor

Date: 10/24/2013

  
Wontae NOH, Inventor

Date: 10/24/2013

  
Jooho LEE, Inventor

**PATENT**