# 502675002 02/11/2014

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT2721609

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

## **CONVEYING PARTY DATA**

Name	Execution Date
KEUN WOO CHO	01/20/2014
HYEON CHEOL PARK	01/20/2014
KYOUNG-SEOK MOON	01/20/2014
KWANG HEE KIM	01/20/2014
JAE-HO LEE	01/20/2014
EUN SEOG CHO	01/20/2014

## **RECEIVING PARTY DATA**

Name:	SAMSUNG ELECTRONICS CO., LTD.	
Street Address:	129, SAMSUNG-RO, YEONGTONG-GU	
City:	SUWON-SI, GYEONGGI-DO	
State/Country:	KOREA, REPUBLIC OF	
Postal Code:	443-742	

## PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14177308

# CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER: PNK1110US
PATENT

502675002 REEL: 032191 FRAME: 0025

NAME OF SUBMITTER:	GRANT M. EHRLICH, PH.D.
Signature:	/Grant M. Ehrlich/
Date:	02/11/2014
	This document serves as an Oath/Declaration (37 CFR 1.63).
Total Attachments: 6 source=6ZT7537#page1.tif source=6ZT7537#page2.tif source=6ZT7537#page3.tif source=6ZT7537#page4.tif source=6ZT7537#page5.tif source=6ZT7537#page6.tif	

PATENT REEL: 032191 FRAME: 0026

#### DECLARATION AND ASSIGNMENT

Title of Invention: <u>HYDROGEN SEPARATION MEMBRANE AND DEVICE INCLUDING HYDROGEN SEPARATION MEMBRANE</u>

As a below named inventor, I hereby declare that:

This declaration is directed to:

[X] the attached application (Attorney Docket Number PNK1110US), or
[ ] United States application or PCT international application number filed on

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I have reviewed and understand the contents of the application, including the claims.

I am aware of the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR Section 1.56.

Whereas, each undersigned inventor has made certain inventions, improvements, and discoveries (herein referred to as the "INVENTION") disclosed in the above-identified patent application (herein referred to as the ("APPLICATION");

Whereas, <u>SAMSUNG ELECTRONICS CO., LTD.</u> a corporation of the <u>Republic of Korea</u> having a place of business at <u>129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 443-742, Republic of Korea</u> (herein referred to as "ASSIGNEE"), desires to acquire, and each undersigned inventor desires to grant to ASSIGNEE, the entire worldwide right, title, and interest in and to the INVENTION and in and to any and all patent applications and patents directed thereto;

Now, therefore, for good and valuable consideration, the receipt and sufficiency thereof being hereby acknowledged, each undersigned inventor (herein referred to ASSIGNOR") hereby sells or has sold, assigns or has assigned, and otherwise transfers or has transferred to the ASSIGNEE, its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the INVENTION, the APPLICATION, and any and all other patent applications and patents for the INVENTION which may be applied for or granted therefor in the United States and in all foreign countries and jurisdictions, including all divisions, continuations, continuations-in-part, reissues, reexaminations, renewals, extensions, counterparts, substitutes, and extensions thereof, and all rights of priority resulting from the filing of such applications and granting of such patents. In addition, each undersigned inventor hereby authorizes and requests the Director of the United States Patent and Trademark Office to issue any United States Patent, and foreign patent authorities to issue any foreign patent, granted for the INVENTION, to ASSIGNEE, its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the same to be held and enjoyed by ASSIGNEE, its successors, legal representatives, and assigns to the full end of the terms for which any and all such patents may be granted, as fully and entirely as would have been held and enjoyed by the undersigned

had this Assignment not been made; and each undersigned inventor agrees to execute any and all documents and instruments and perform all lawful acts reasonably related to recording this Assignment or perfecting title to the INVENTION, the APPLICATION, and all related patents and applications, in ASSIGNEE, its successors, legal representatives, and assigns, whenever requested by ASSIGNEE, its successors, legal representatives, and assigns.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

The undersigned hereby grant(s) the law firm of Cantor Colburn LLP the power to insert on this Declaration and 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.

Legal Name of Inventor: Keun woo CHO		
Signature:	Date:	January 20, 2014
Legal Name of Inventor: Hyeon Cheol PARK		
Signature: H.C. Park	Date:	January 20, 2014
Legal Name of Inventor: <b>Kyoung-Seok MOON</b>		
Signature: KYOUNG-SEOK MOON	Date:	January 20, 2014
Legal Name of Inventor: Kwang Hee KIM		
Signature: Kumyher Min	Date:	January 20, 2014
Legal Name of Inventor: Jae-Ho LEE		
Signature:	Date:	

Legal Name of Inventor: Eun Seog, CHO	
Signature:	January 20, 2014 Date:

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<u>HYDROGEN SEPARATION MEMBRANE</u>

As a below named inventor, I hereby declare that:

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[X] the attached application (Attorney Docket Number PNK1110US), or
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Now, therefore, for good and valuable consideration, the receipt and sufficiency thereof being hereby acknowledged, each undersigned inventor (herein referred to ASSIGNOR") hereby sells or has sold, assigns or has assigned, and otherwise transfers or has transferred to the ASSIGNEE, its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the INVENTION, the APPLICATION, and any and all other patent applications and patents for the INVENTION which may be applied for or granted therefor in the United States and in all foreign countries and jurisdictions, including all divisions, continuations, continuations-in-part, reissues, reexaminations, renewals, extensions, counterparts, substitutes, and extensions thereof, and all rights of priority resulting from the filing of such applications and granting of such patents. In addition, each undersigned inventor hereby authorizes and requests the Director of the United States Patent and Trademark Office to issue any United States Patent, and foreign patent authorities to issue any foreign patent, granted for the INVENTION, to ASSIGNEE, its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the same to be held and enjoyed by ASSIGNEE, its successors, legal representatives, and assigns to the full end of the terms for which any and all such patents may be granted, as fully and entirely as would have been held and enjoyed by the undersigned

Legal Name of Inventor: Keun woo CHO

had this Assignment not been made; and each undersigned inventor agrees to execute any and all documents and instruments and perform all lawful acts reasonably related to recording this Assignment or perfecting title to the INVENTION, the APPLICATION, and all related patents and applications, in ASSIGNEE, its successors, legal representatives, and assigns, whenever requested by ASSIGNEE, its successors, legal representatives, and assigns.

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Signature:	Date:
Legal Name of Inventor: <b>Hyeon Cheol PARK</b>	
Signature:	Date:
Legal Name of Inventor: <b>Kyoung-Seok MOON</b>	ī
Signature:	Date:
Legal Name of Inventor: <b>Kwang Hee KIM</b>	
Signature:	Date:
Legal Name of Inventor: Jae-Ho LEE	
Signature: Let Vanda	January 20, 2014

Legal Name of Inventor: Eun Seog CHO		
Signature:	Date:	

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