502276062 03/18/2013

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Kwang Hee KIM	03/18/2013
Hyeon Cheol PARK	03/18/2013
Byung Ki RYU	03/18/2013
Jae Ho LEE	03/18/2013

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:	13846174

CORRESPONDENCE DATA

Fax Number: 8602860115

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 860-286-2929

Email: jwhitman@cantorcolburn.com
Correspondent Name: CANTOR COLBURN LLP

Address Line 1: 20 Church Street Address Line 2: 22nd Floor

Address Line 4: Hartford, CONNECTICUT 06103

ATTORNEY DOCKET NUMBER:	PNK0934US
NAME OF SUBMITTER:	Grant M. Ehrlich, Ph.D.
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 2

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PATENT REEL: 030034 FRAME: 0059 ASSIGNMENT

WHEREAS WE, Kwang Hee KIM of 101, 1630-16, Bongcheon 11-dong, Gwanak-gu

Scoul, Korea; Hyeon Cheol PARK of 352-1801, Sibeom Daeun Macul Woonam Firstvill Apt.,

Bansong-dong, Hwaseong-si, Gyeonggi-do, Korea; Byung Ki RYU of 121, Yedang Maeul

Woomirin Jeil Punggyeongchae Apt., Seokwoo-dong, Hwascong-si, Gyeonggi-do, Korea; and Jae

Ho LEE of \$17-101, Samsung 5 Cha Apt., Pungdeokcheon 2-dong, Suji-gu, Yongin-si,

Gyconggi-do, Korea (hereinafter collectively referred to as the "ASSIGNORS"), have invented

certain new and useful improvements in:

SEPARATION MEMBRANE, HYDROGEN SEPARATION MEMBRANE INCLUDING THE SEPARATION MEMBRANE, AND DEVICE INCLUDING THE HYDROGEN

SEPARATION MEMBRANE

(hereinafter referred to as the "INVENTION") which claims priority to Korean Application Nos.

10-2012-0027722 and 10-2013-0028218 filed on March 19, 2012 and March 15, 2013; and for

which we are about to file an application for a United States Patent (hereinafter collectively

referred to as the "APPLICATIONS");

AND WHEREAS, SAMSUNG ELECTRONICS CO. LTD. (hereinafter referred to as

"ASSIGNEE"), a corporation organized and existing under the laws of the Country of Korea,

having a place of business at 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do,

443-742, Republic of Korea, is desirous of acquiring an interest in any and all countries, in and to

the INVENTION, the APPLICATIONS, and any and all Patents to be obtained therefor;

NOW THEREFORE, TO ALL WHOM IT MAY CONCERN, be it known that for good

and valuable consideration, the receipt of which is hereby acknowledged, we, the ASSIGNORS,

have assigned and transferred, and hereby assign and transfer unto ASSIGNEE, the entire right,

title and interest in and to the INVENTION, the APPLICATIONS, and any and all Patents that may

be issued therefrom, in any and all countries, including any and all revivals, refilings, continuations,

continuations-in-part, divisions and reissues thereof, to ASSIGNEE; and we do hereby agree that

we will execute all papers necessary in connection with any and all patent applications when called

upon to do so by ASSIGNEE, its successors or assigns, and that we will, at the cost and expense

of ASSIGNEE, fully assist and cooperate in all matters in connection with any and all patent

applications and Patents issuing thereon.

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PATENT REEL: 030034 FRAME: 0060 The undersigned declare that all statements made herein of his own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the APPLICATIONS or any Patents issuing thereon.

Date: March 18, 2013	Xiandro Xin	LS
Date: March 18, 2013	Kwang Hee KIM /C. O. Poulc	LS
Date: March 18, 2013	Hyeon Cheol PARK	7.5
Date: March 18, 2013	Byung Ki RYU	LS
	Jae Ho LEE	

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PATENT REEL: 030034 FRAME: 0061