

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Hyeon Cheol PARK</td> <td>02/15/2013</td> </tr> <tr> <td>Kwang Hee KIM</td> <td>02/15/2013</td> </tr> <tr> <td>Byung Ki RYU</td> <td>02/15/2013</td> </tr> <tr> <td>Jae Ho LEE</td> <td>02/15/2013</td> </tr> </tbody> </table>		Name	Execution Date	Hyeon Cheol PARK	02/15/2013	Kwang Hee KIM	02/15/2013	Byung Ki RYU	02/15/2013	Jae Ho LEE	02/15/2013
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Byung Ki RYU	02/15/2013										
Jae Ho LEE	02/15/2013										
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											
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13767971</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13767971						
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Application Number:	13767971										
CORRESPONDENCE DATA											
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NAME OF SUBMITTER:	Grant M. Ehrlich										
Total Attachments: 2 source=6L13749#page1.tif source=6L13749#page2.tif											

OP \$40.00 13767971

ASSIGNMENT

WHEREAS WE, **Hyeon Cheol PARK** of 352-1801, Sibeom Daeun Maeul Woonam Firstvill Apt., Bansong-dong, Hwaseong-si, Gyeonggi-do, Republic of Korea; **Kwang Hee KIM** of 101, 1630-16, Bongcheon 11-dong, Gwanak-gu, Seoul, Republic of Korea; **Byung Ki RYU** 121, Yedang Maeul Woomirin Jeil Punggyeongchae Apt., Seokwoo-dong, Hwaseong-si, Gyeonggi-do, Republic of Korea; and **Jae Ho LEE** of 517-101, Samsung 5 Cha Apt., Pungdeokcheon 2- dong, Suji-gu, Yongin-si, Gyeonggi-do, Republic of 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 HYDROGEN PURIFIER INCLUDING THE HYDROGEN SEPARATION MEMBRANE

(hereinafter referred to as the "INVENTION") which claims priority to **Korean** Application No. 10-2012-0015318, filed on February 15, 2012 and **Korean** Application No. 10-2013-0016184, filed on February 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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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: February 15, 2013

H. C. Park L.S.
Hyeon Cheol PARK

Date: February 15, 2013

Kwang Hee Kim L.S.
Kwang Hee KIM

Date: February 15, 2013

Byung Ki Ryu L.S.
Byung Ki RYU

Date: February 15, 2013

Jaeho Lee L.S.
Jae Ho LEE

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-2/2-