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Form <b>PTO-1595</b> (Rev. 01-09) OMB No. 0651-0027 (exp. 02/28/2009)	U.S. DEPARTMENT OF COMMERCE United States Patent and Trademark Office			
RECORDATION FORM COVER SHEET				
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To the Director of the U.S. Patent and Trademark Office: Please	record the attached documents or the new address(es) below.			
Name of conveying party(ies):     2. Name and address of receiving party(ies)				
Jae Eun Kim (02/14/2012), Bo-Kyung Jung	Name: Samsung Electronics Co., Ltd.			
(02/14/2012), Jung-Im Han (02/14/2012), Hyo Kang (02/14/2012), Hyo Rang Kang (02/14/2012),				
and Sung-Soo Han (02/14/2012)	Internal Address:			
Additional name(s) of conveying party(les) attached? X Yes No	Street Address:			
3. Nature of conveyance/Execution Date(s):				
Execution Date(s): in parentheses after inventor name	416 Maetan-dong, Yeongtong-gu			
x Assignment Merger Change of Name				
Security Agreement Joint Research Agreement	City: Suwon-si, Gyeonggi-do			
Government Interest Assignment				
	State:			
Executive Order 9424, Confirmatory License	Country: Republic of Korea Zip:  Additional name(s) & address(es) Yes X No			
Other	attached?			
4. Application or patent number(s):	This document is being filed together with a new application.			
A. Patent Application No.(s)	B. Patent No.(s)			
13/398,406				
,				
Additional numbers attached?	Yes X No			
Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved:			
Name: Gary D. Yacura HARNESS, DICKEY & PIERCE, P.L.C.	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00			
Internal Address: Atty. Dkt.: 15639-000059/US				
Street Address: P.O. Box 8910	X Authorized to be charged to deposit account			
	Enclosed			
	None required (government interest not affecting title)			
City: Reston	8. Payment Information			
State: VA Zip: 20195				
Phone Number: (703) 668-8000  Fax Number: (703) 668-8200	Deposit Account Number 08-0750			
Fax Number: (703) 668-8200	Authorized User Name Gary D. Yacura			
9. Signature:				
	February 16, 2012			
8 Ignature	Date			
Gary D. Yacura - 35,416	Total number of pages including cover 4			
Name of Person Signing	sheet, attachments, and documents:			

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Atty. Dkt. No. 15639-000059/US

## ASSIGNMENT

WHEREAS, the undersigned, hereinafter referred to collectively as Assignor, has invented:

DRAW SOLUTE FOR FORWARD OSMOSIS, DRAW SOLUTION INCLUDING THE SAME, FORWARD OSMOSIS WATER TREATMENT DEVICE USING THE SAME, AND FORWARD OSMOSIS METHOD FOR WATER TREATMENT USING THE SAME

for which Assignor is about to make or has made United States or International application for patent

(a) executed on even date preparatory to filing (each inventor should sign

(a)	KI.	executed on even date preparatory to filing (each inventor should sign this Assignment on the same day as he/she signs the Declaration and Power of Attorney);
(b)		executed on,; or
(c)		filed on, and assigned Serial No, or PCT International Application No. : and

WHEREAS, Samsung Electronics Co., Ltd., 416, Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea, hereinafter referred to as Assignee, is desirous of acquiring all right, title, and interest therein:

NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy whereof is hereby acknowledged, Assignor hereby confirms any prior assignment to Assignee. and to the extent that Assignor has not already done so, agrees to assign, and hereby does, sell, assign and transfer unto Assignee and its successors in interest, the full and exclusive right, title and interest in the United States of America and throughout the world, including the right to claim priority under the laws of the United States, the Paris Convention, and any foreign countries, to the inventions as described in the aforesaid application, to the aforesaid application itself, and all divisions, continuations, continuations-in-part, or other applications claiming priority directly or indirectly from the aforesaid application, and any United States or foreign Letters Patent, utility model, or other similar rights which may be granted thereon, including reissues, reexaminations and extensions thereof, and all copyright rights throughout the world in the aforesaid application and the subject matter disclosed therein, these rights, title and interest to be held and enjoyed by Assignee to the full end of the term for which the Letters Patent, utility model, or other similar rights, are granted and any extensions thereof as fully and entirely as the same would have been held by Assignor had this assignment and sale not been made, and the right to sue for, and recover for past infringements of, or liabilities for, any of the rights relating to any of the applications, patents, utility models, or other similar rights, resulting therefrom, and the copyright rights:

Assignor hereby covenants and agrees to execute all instruments or documents required or requested for the making and prosecution of any applications of any type for patent, utility model, or other similar rights, and for copyright, in the United States and in all foreign countries including, but not limited to, any provisional, continuation, continuation-in-part, divisional, renewal or substitute thereof, and as to letters patent any reissue, re-examination, or extension thereof, and for litigation regarding, or for the purpose of protecting title and to the said invention, the United States application for patent, or Letters Patent therefor, and to testify in support thereof, for the benefit of Assignee without further or other compensation than that above set forth;

Assignor hereby covenants that no assignment, sale, license, agreement or encumbrance has been or will be entered into which would conflict with this Assignment; and

Assignor hereby requests the United States Patent and Trademark Office to issue the Letters Patent of the United States of America to Assignee, and requests that any official of any country or countries foreign to the United States, whose duty it is to issue or grant patents and applications as aforesaid, to issue the Letters Patent, Utility Model Registration or other similar right to Assignee.

The undersigned hereby grant(s) the law firm of Harness, Dickey & Pierce, P.L.C. the power to insert on this 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.

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## **ASSIGNMENT**

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