From: Harness Dickey 703-668-8200 700 4	190325 ⁷¹²⁷³⁰¹⁴⁰ 7/	27/2012	Date: 7/27/2012 3:22:11 PM
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MB No. 0651-0027 (exp. 03/31/2012) RECORDATION FOR	United States Patent and Trademark O		
PATENTS	ONLY		
To the Director of the U.S. Patent and Trademark Office: Please	record the attached documents or the new address(es) below		
1. Name of conveying party(ies):	2. Name and address of receiving party(ies)		
Joo Jib Park (07/25/2012), Oh Jin Kwon (07/25/2012), Sungho Jang (07/25/2012), and	Name: Semes Co., Ltd.		
Boong Kim (07/25/2012)	Internal Address:		
Additional name(s) of conveying party(les) attached? Yes X No	Street Address:		
3. Nature of conveyance/Execution Date(s):			
Execution Date(s): in parentheses after inventor name	#278, Mosi-ri, Jiksan-eup, Seobuk-gu		
X Assignment Merger Change of Name			
Security Agreement Joint Research Agreement	City: Cheonan-si, Chungcheongnam-do		
Government Interest Assignment	State:		
Executive Order 9424, Confirmatory License	Country: Republic of Korea Zip:		
Other	Additional name(s) & address(es) Yes X No		
	attached?		
A. Patent Application No.(s) 13/559,838	B. Patent No.(s)		
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: John A. Castellano HARNESS, DICKEY & PIERCE, P.L.C.	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00		
Internal Address: Atty. Dkt.: 8947NS-000648/US			
Street Address: P.O. Box 8910	X Authorized to be charged to deposit account		
	Enclosed		
	None required (government interest not affecting t		
City: Reston	8. Payment Information		
	ಕೆ. Payment Information		
	8. Payment Information		
State: VA Zip: 20195 Phone Number: (703) 668-8000 Fax Number: (703) 668-8200	Deposit Account Number 08-0750		
State: VA Zip: 20195 Phone Number: (703) 668-8000			
State: VA Zip: 20195 Phone Number: (703) 668-8000 Fax Number: (703) 668-8200	Deposit Account Number 08-0750 Authorized User Name John A. Castellano		
State: VA zip: 20195 Phone Number: (703) 668-8000 Fax Number: (703) 668-8200 Email Address: dcmail/room@hdx.com	Deposit Account Number 08-0750		

JAC/bh

PATENT REEL: 028669 FRAME: 0032

ASSIGNMENT

Atty. Docket No.

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

APPARATUS AND METHOD FOR TREATING SUBSTRATE

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 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;
(d)		U.S. Patent No, issued; and
WHEF	REAS,	SEMES CO., LTD., 278, Mosi-ri, Jiksan-eup, Seobuk-gu, Cheonan-si,

WHEREAS, **SEMES CO.**, **LTD.**, 278, Mosi-ri, Jiksan-eup, Seobuk-gu, Cheonan-si, Chungcheongnam-do 330-290, Republic of Korea, hereinafter referred to as Assignee, is desirous of acquiring an interest therein:

NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy whereof is hereby acknowledged, Assignor by these presents 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 all foreign countries, including the right to claim priority under the laws of the United States, the Paris Convention, and any foreign countries, to the said invention as described in the aforesaid application, said application for patent and all Letters Patent therefor to be held and enjoyed by Assignee to the full end of the term for which said Letters Patent 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 recover for past infringements of, or liabilities for, any of the rights relating to any of said applications or patents resulting therefrom;

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 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 or agreement or encumbrance has been or will be entered into which would conflict with this Assignment; and

Assignor hereby requests the Commissioner of Patents and Trademarks to issue said 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 said Letters Patent, Utility Model Registration or Inventor's Certificate 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.

Page 1 of 2

ASSIGNMENT

PARK, JOO JIB

Dated

1/25/2012

KWON, OH JIN

과 오진

Dated

1/25/20/2

JANG, SUNGHO

장성호

Dated

7/25/2012

KIM, BOONG

16

Dated

1/25 12012

RECORDED: 07/27/2012