PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Naoto Tsuji	03/04/2013
Atsuki Fukazawa	03/04/2013
Noboru Takamure	03/05/2013
Suvi Haukka	03/08/2013
Antti Juhani Niskanen	03/11/2013
Hyung Sang Park	03/06/2013

RECEIVING PARTY DATA

Name:	ASM IP Holding B.V.
Street Address:	Versterkerstraat 8
City:	Almere
State/Country:	NETHERLANDS
Postal Code:	1322 AP

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13799708

CORRESPONDENCE DATA

Fax Number: 6023826070

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

602-382-6337 Phone: snieto@swlaw.com

Snell & Wilmer L.L.P. / Damon L. Boyd

Address Line 1: 400 EAST VAN BUREN Address Line 2: ONE ARIZONA CENTER

PHOENIX, ARIZONA 85004-2202

ATTORNEY DOCKET NUMBER: 56436.3500

PATENT

REEL: 030072 FRAME: 0417

Email:

Correspondent Name:

Address Line 4:

502283671

NAME OF SUBMITTER:	Damon L. Boyd
Total Attachments: 5 source=564363500ASN#page1.tif source=564363500ASN#page2.tif source=564363500ASN#page3.tif source=564363500ASN#page4.tif source=564363500ASN#page5.tif	

PATENT REEL: 030072 FRAME: 0418

ASSIGNMENT

WHEREAS, the undersigned inventor(s) (hereinafter singly and collectively, "ASSIGNOR") of the address(es) indicated below, have invented a(n) Method for Forming Si-Containing Film Using Two Precursors by ALD for which application for Letters Patent of the United States is being applied for herewith (hereinafter "Application");

AND WHEREAS, ASM IP Holding B.V. (hereinafter "ASSIGNEE"), a corporation having its principal place of business at Versterkerstraat 8, 1322 AP Almere, The Netherlands, is desirous of acquiring the entire right, title, and interest in and to the Application and the invention as described in the Application, and is a non-Inventor Applicant;

AND WHEREAS, a "formal application," as referred to herein, shall include the Application including any provisional, non-provisional, design, continuation, continuation in part, divisional, reissue, reexamination, foreign, PCT or other patent application or like document thereof,

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNOR by these presents do sell, assign and transfer unto ASSIGNEE, its successors, assigns and legal representatives, the full and exclusive right, title, and interest in and to the Applications, the invention as described in the Application, and all formal applications which may be filed based in whole or in part on one or more of the aforesaid applications, in the United States and all foreign countries, together with the right of priority under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States adheres, and hereby authorizes and requests the Commissioner of Patents to issue said Letters Patent to ASSIGNEE, for the sole use and benefit of ASSIGNEE, its successors, assigns and legal representatives,

AND HEREBY AGREE to transfer, upon request of ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, a like interest in and to any improvements and formal applications based thereon, growing out of or relating to the invention; and, without further remuneration, to provide all reasonable assistance and execute any papers requested by ASSIGNEE, its successors, assigns and legal representatives, to preserve and/or acquire ASSIGNEE's full protection and title in and to the invention hereby transferred and any improvements therein,

AGREEING, FURTHERMORE, upon request of ASSIGNEE, and without further remuneration, to execute any and all papers desired by ASSIGNEE for the filing and granting of formal applications based on the invention or improvements therein, and the perfecting of title thereto in ASSIGNEE.

IN ADDITION, I authorize any attorney associated with Snell & Wilmer L.L.P. to insert on this document the serial number, filing date, and any further identification that may be necessary or desirable by the U.S. Patent and Trademark Office.

EXECUTED as of the date(s) written below by ASSIGNOR:

* * ×

Application No.:Filed:		•
INVENTOR'S NAME	ADDRESS	SIGNATURE DATE
Naoto Tsuji	Suginami-ku, Tokyo Japan	March 4, 2013
WITNESS NAME	SIGNATURE	DATE
Junya Murimolo	J. A	May 4, 2013
Atsuki Fukazawa	Tama-shi, Tokyo Japan	Atak Tubazara 4th March 2017
WITNESS NAME	SIGNATURE	DATE
Junya Motipato	JA	Mar.4, 2013
Noboru Takamure	Kawasaki-shi, Kanagawa Japan	Noboru Takaune 1th March 2013
WITNESS NAME	SIGNATURE	DATE
Junya Motinoto	J. K	Mar. 5, 2013
Suvi Haukka	Helsinki, Finland	
WITNESS NAME	SIGNATURE	DATE
		:

~2 ×

Application No.:Filed:	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
INVENTOR'S NAME	ADDRESS	SIGNATURE	DATE
Naoto Tsuji	Suginami-ku, Tokvo		
	Japan Japan		
WITNESS NAME	SIGNATURE	DATE	¢.
Atsuki Fukazawa	Tama-shi, Tokyo Japan		
WITNESS NAME	SIGNATURE	DATE	
Noboru Takamure	Kawasaki-shi, Kanagawa Japan		
WITNESS NAME	SIGNATURE	DATE	
Suyi Haukka	Helsinki, Finland	March 8,	2013
witness name <u>Ryan Li Varg</u> ax	SIGNATURE	date <i>3/8/13</i>	

-2-

Application No.: Filed:		
Antti Juhani Niskanen	Helsinki, Finland	The 11-Har-2013
WITNESS NAME	SIGNATURE	DATE
HANNU HUOTAVA		11-1101-2013
Hyung Saug Park	Seoul, Korca	
WITNESS NAME	SIGNATURE	DATE

SNELL & WILMER, LLP. Damon L. Boyd, Esq. One Arizona Center 400 East Van Buren Phoenix, Arizona 85004-2202 Tel.: (602) 382-6337 Fax: (602) 382-6070

~ 3 ~

Application No.:			
Filed:	v.		
7			
Antti Juhani Niskanen			
8:	Helsinki, Finland	And the same of th	***************************************
*			
WITNESS NAME	SIGNATURE	DATE	
,	3-990		
		4.	
	The A. Flan while rate	do At	
Hyung Sang Park	Hyurden ESA2 Blift, Sealo	_JETV	2013. Mar. 06
ŕ	Scoul, Kores		
Y7 27 (20) 2 2 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.7 dt. 1		
WITNESS NAME	SIGNATURE	DATE	
~ 11 lan	al Mad		о
Sootyun Kiv	LA LANDER	Mar. 06, 201	G,

SNELL & WILMER, LLP. Damon L. Boyd, Esq. One Arizona Center 400 East Van Buren Phoenix, Arizona 85004-2202

Tel.: (602) 382-6337

Fax: (602) 382-6070

-3-

RECORDED: 03/22/2013