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PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SHINN-SHENG YU	04/11/2012
YEN-CHENG LU	11/04/2012
ANTHONY YEN	04/11/2012

RECEIVING PARTY DATA

Name:	TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY, LTD.
Street Address:	NO. 8, LI-HSIN RD. 6
Internal Address:	SCIENCE-BASED INDUSTRIAL PARK
City:	HSIN-CHU
State/Country:	TAIWAN
Postal Code:	300-77

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14491560

CORRESPONDENCE DATA

Fax Number: (214)200-0853

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 214-651-5000

Email: ipdocketing@haynesboone.com HAYNES AND BOONE, LLP **Correspondent Name:** 2323 VICTORY AVENUE Address Line 1:

Address Line 2: SUITE 700

Address Line 4: DALLAS, TEXAS 75219

ATTORNEY DOCKET NUMBER: 2010-1275-D / 24061.2977	
NAME OF SUBMITTER:	DAVID M. O'DELL
SIGNATURE:	/David M. O'Dell/
DATE SIGNED:	11/22/2014

Total Attachments: 2

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PATENT REEL: 034241 FRAME: 0769 503072922

Docket No.: 2011-1275 / 24061.2018B

Customer No.: 42717

ASSIGNMENT

WHEREAS,	we
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(1)	Shinn-Sheng Yu	of	4F-2, No. 16, Lane 634, Nanda Road Hsinchu, Taiwan, R.O.C.
(2)	Yen-Cheng Lu	of	2F, No. 12, Lane 31, Sec. 1, Sanmin Road, Banqiao District New Taipei City 220, Taiwan, R.O.C.
(3)	Anthony Yen	of	17F, 296-5 Guangming 6th Road E., Sec. 1 Zhubei City, Hsinchu County 302, Taiwan, R.O.C.

have invented certain improvements in

AN EXTREME ULTRAVIOLET LITHOGRAPHY PROCESS AND MASK

for which we have filed and executed an application for Letters Patent of the United States of America on April 2, 2012, as U.S. Serial No. 13/437,099; and

WHEREAS, Taiwan Semiconductor Manufacturing Company, Ltd., ("TSMC"), No. 8, Li-Hsin Rd. 6, Science-Based Industrial Park Hsin-Chu, Taiwan 300-77, Republic of China. is desirous of obtaining the entire right, title, and interest in, to and under the said invention and the said application in the United States of America and in any and all countries foreign thereto;

NOW, THEREFORE, good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, and other good and valuable consideration, we have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said TSMC, its successors, legal representatives, and assigns, the entire right, title, and interest in, to and under the said invention, and the said application, and all divisional, renewal, substitutional, and continuing applications thereof, and all Letters Patent of the United States of America which may be granted thereon and all reissues and extensions thereof, and all applications for Letters Patent which may be filed for said invention in any country or countries foreign to the United States of America, and all extensions, renewals, and reissues thereof, and all prior patents and patent applications from which a filing priority of the above-described patent application may be obtained, including the right to collect past damages; and we hereby authorize and request the Commissioner of Patents of the United States of America, and any official of any country or countries foreign to the United States of America, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said invention to the said TSMC, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith.

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AND WE HEREBY further covenant and agree that we will communicate to said TSMC, its successors, legal representatives and assigns, any facts known to us respecting said invention, and testify in any legal proceedings, sign all lawful papers, execute all divisional, renewal, substitutional, continuing, and reissue applications, make all rightful declarations and/or oaths and generally do everything possible to aid the said TSMC, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said invention in all countries.

Inventor Name:	Shinn-Sheng Yu	
Residence Address:	4F-2, No. 16, Lane 634, Nanda Road Hsinchu, Taiwan, R.O.C.	
Dated: <u>2012/04/1</u>	Shinn-Shong Inventor Signature	: Yu
Inventor Name:	Yen-Cheng Lu	
Residence Address:	2F, No. 12, Lane 31, Sec. 1, Sanmin Road, Banqiao I New Taipei City 220, Taiwan, R.O.C.	District
Dated: <u> </u>	Yen-Chen Inventor Signature	g Lu
Inventor Name:	Anthony Yen	
Residence Address:	17F, 296-5 Guangming 6th Road E., Sec. 1 Zhubei City, Hsinchu County 302, Taiwan R.O.C.	

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april 11, 2012

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Inventor Signature