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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Ching-Yu CHANG	06/08/2006
Burn Jeng LIN	06/09/2006
Chin-Hsiang LIN	06/09/2006

RECEIVING PARTY DATA

Name:	TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY, LTD.
Street Address:	No. 8, Li-Hsin Road 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:	11427421

CORRESPONDENCE DATA

Fax Number: (214)200-0853

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

Phone: 214-651-5000

Email: bonnie.boyle@haynesboone.com

Correspondent Name: Haynes and Boone, LLP
Address Line 1: 901 Main Street, Suite 3100

Address Line 4: Dallas, TEXAS 75202

ATTORNEY DOCKET NUMBER: 24061.724

NAME OF SUBMITTER: David M. O'Dell

Total Attachments: 2

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PATENT REEL: 017866 FRAME: 0862

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PATENT REEL: 017866 FRAME: 0863

Docket No.: 2005-0642/0643 / 24061.724

Customer No.: 000042717

ASSIGNMENT

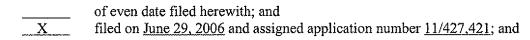
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(1)	Ching-Yu Chang	of	No. 17, Hsinchen Road, Yuansun Village Yilang County 264, Taiwan, R.O.C.
(2)	Burn Jeng Lin	of	153 Kuang Fu Road., Sec. 1, Lane 89, 1 st FL Hsin-Chu, Taiwan, R.O.C.
(3)	Chin-Hsiang Lin	of	No. 37, Lane 393, Min-Hu Road Hsin-Chu, Taiwan, R.O.C.

have invented certain improvements in

IMMERSION LITHOGRAPHY APPARATUS AND METHOD

for which we have executed an application for Letters Patent of the United States of America,



WHEREAS, we authorize the attorney of record to update this document to include Patent Office information as deemed necessary (i.e., filing date, serial number, etc.);

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, for One Dollar (\$1.00) and other 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.

Traventor	* Y
[T1 1/12/71 T/CV	(A) DYY) A'

Ching-Yu Chang

Residence Address:

No. 17, Hsinchen Road, Yuansun Village

Yilang County 264, Taiwan, R.O.C.

Dated: 6/8 2008

Inventor Signature

Inventor Name:

Burn Jeng Lin

Residence Address:

153 Kuang Fu Road, Sec. 1, Lane 89, 1st FL

Hsin-Chu, Taiwan, R.O.C.

Dated: Jun 9 200 6

Inventor Signature

Inventor Name:

Chin-Hsiang Lin

Residence Address:

No. 37, Lane 393, Min-Hu Road

Hsin-Chu, Taiwan, R.O.C.

Dated: Tong 9, 200/

Inventor Signature

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