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10-29-2003

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(Rev. 10/02)
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U.S. DEPARTMENT OF COMMERCE
U.S. Patent and Trademark Office

102587231

U.S. PTO
2238
10/688500



To the honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):
Jaw-Jung Shin Li-Chun Tien King-Chang Shu
Chun-Kuang Chen Mi-Chang Chang Li-Jui Chen
Tsai-Sheng Gau Yu-Jun Chou
Burn-Jeng Lin Jan-Wen You

2. Name and address of receiving party(ies)
Name: Taiwan Semiconductor Manufacturing Company Ltd.

Internal Address: _____

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:
☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

Street Address: No. 6, Li-Hsin Rd. 6

Science-Based Industrial Park

City: Hsin-Chu State: Taiwan Zip: 300-77

Execution Date: JJS, JWY-10/08/03; CKC, TSG, BJL, YJC, KCS, LJC-10/14/03; LCT-10/13/2003; MCC-10/15/03

Additional name(s) & address(es) attached? ☐ Yes ☐ No

4. Application number(s) or patent number(s):
If this document is being filed together with a new application, the execution date of the application is: JJS, JWY-10/08/03; CKC, TSG, BJL, YJC, KCS, LJC-10/14/03; LCT-10/13/2003; MCC-10/15/03

A. Patent Application No.(s)
10/688500

B. Patent No.(s)
Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Steven H. Slater

Slater & Matsil, L.L.P.

Internal Address: _____

Street Address: 17950 Preston Rd.

Suite 1000

City: Dallas State: Texas Zip: 75252-5793

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41). \$ 40.00

☐ Enclosed

☒ Authorized to be charged to deposit account

8. Deposit account number:

50-1065

(Attach duplicate copy of this page if paying by deposit account)

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9. Statement and signature.
To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.
Barry W. Dove, Reg. No. 45,862
Name of Person Signing
Signature
October 17, 2003
Date
Total number of pages including cover sheet, attachments, and documents: 4

10/29/2003 LMUELLER 00000047 501065 10688500
01 FC:8021 40.00 DA
Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Mail Stop: Assignments
P. O. Box 1450, Alexandria, VA 22313-1450

PATENT
REEL: 014626 FRAME: 0819

ATTORNEY DOCKET NO.
TSM02-1293

ASSIGNMENT

WHEREAS, I, the undersigned inventor (or one of the undersigned joint inventors), of residence as listed, having invented certain new and useful improvements as below entitled, for which application for United States Letters Patent is made, the said application having been executed on the date set forth below; and

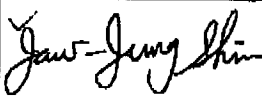
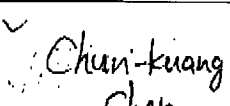

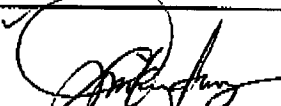
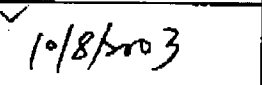
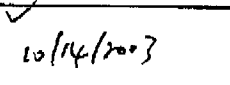
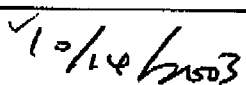
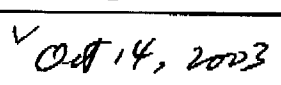
WHEREAS, Taiwan Semiconductor Manufacturing Company, Ltd. (TSMC), a corporation organized and existing under the laws of Taiwan, the Republic of China, with its principal office at No. 6, Li-Hsin Rd. 6, Science-Based Industrial Park, Hsin-Chu, Taiwan 300-77, R.O.C., is desirous of acquiring my entire right, title and interest in and to the said invention, and to the said application and any Letters Patent that may issue thereon in the United States and all other countries throughout the world;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I hereby sell and assign to the said TSMC, its successors and assigns, my entire right, title and interest in and to the said invention and in to the said application and all patents which may be granted therefor, and all divisions, reissues, substitutions, continuations, and extensions thereof; and I hereby authorize and request the Commissioner for Patents to issue all patents for said invention, or patent resulting therefrom, insofar as my interest is concerned, to the said TSMC, as assignee of my entire right, title and interest. I declare that I have not executed and will not execute any agreement in conflict herewith.

I also hereby sell and assign to TSMC, its successors and assigns, my foreign rights to the invention disclosed in said application, in all countries of the world, including, but not limited to, the right to file applications and obtain patents under the terms of the International Convention for the Protection of Industrial Property, and of the European Patent Convention, and further agree to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights.

I hereby further agree that I will communicate to said TSMC, or to its successors, assigns, and legal representatives, any facts known to me respecting said invention or the file history thereof, and at the expense of said assignee company, testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, reissue and substitute applications, make all lawful oaths, and generally do everything possible to aid said TSMC, its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in all countries.

IN WITNESS WHEREOF, I hereunto set my hand and seal this day and year:

TITLE OF INVENTION	<i>Method Of Defining Forbidden Pitches For A Lithography Exposure Tool</i>			
SIGNATURE OF INVENTOR AND NAME	 Jaw-Jung Shin	 Chun-Kuang Chen	 Tsei-Sheng Gau	 Burn-Jeng Lin
DATE	 10/8/2003	 10/14/2003	 10/14/2003	 Oct 14, 2003
RESIDENCE (City, County, State)	Hsin-Chu, Taiwan R.O.C.	Taoyuang, Taiwan R.O.C.	San-Chung City, Taipei	Hsin-Chu, TAIWAN R.O.C.

ATTORNEY DOCKET NO.
TSM02-1293

ASSIGNMENT

WHEREAS, I, the undersigned inventor (or one of the undersigned joint inventors), of residence as listed, having invented certain new and useful improvements as below entitled, for which application for United States Letters Patent is made, the said application having been executed on the date set forth below; and

WHEREAS, Taiwan Semiconductor Manufacturing Company, Ltd. (TSMC), a corporation organized and existing under the laws of Taiwan, the Republic of China, with its principal office at 121, Park Avenue 3, Science-Based Industrial Park, Hsin-Chu, Taiwan 300, R.O.C., is desirous of acquiring my entire right, title and interest in and to the said invention, and to the said application and any Letters Patent that may issue thereon in the United States and all other countries throughout the world;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I hereby sell and assign to the said TSMC, its successors and assigns, my entire right, title and interest in and to the said invention and in to the said application and all patents which may be granted therefor, and all divisions, reissues, substitutions, continuations, and extensions thereof; and I hereby authorize and request the Commissioner for Patents to issue all patents for said invention, or patent resulting therefrom, insofar as my interest is concerned, to the said TSMC, as assignee of my entire right, title and interest. I declare that I have not executed and will not execute any agreement in conflict herewith.

I also hereby sell and assign to TSMC, its successors and assigns, my foreign rights to the invention disclosed in said application, in all countries of the world, including, but not limited to, the right to file applications and obtain patents under the terms of the International Convention for the Protection of Industrial Property, and of the European Patent Convention, and further agree to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights.

I hereby further agree that I will communicate to said TSMC, or to its successors, assigns, and legal representatives, any facts known to me respecting said invention or the file history thereof, and at the expense of said assignee company, testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, reissue and substitute applications, make all lawful oaths, and generally do everything possible to aid said TSMC, its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in all countries.

IN WITNESS WHEREOF, I hereunto set my hand and seal this day and year;

TITLE OF INVENTION	Method Of Defining Forbidden Pitches For A Lithography Exposure Tool			
SIGNATURE OF INVENTOR AND NAME	✓ <i>Li-Chun Tien</i> Li-Chun Tien	✓ <i>Mi-Chang Chang</i> Mi-Chang Chang	✓ <i>Yu-Jun Chou</i> Yu-Jun Chou	✓ <i>Jan-Wen You</i> Jan-Wen You
DATE	✓ 10/13/2003	✓ 10/15/2003	✓ 10/14/2003	✓ 10/8/2003
RESIDENCE (City, County, State)	Hsin-Chu, Taiwan, R.O.C.	Hsin-Chu, Taiwan, R.O.C.	Taipei, Taiwan, R.O.C.	Taoyuang, Taiwan, R.O.C.

ATTORNEY DOCKET NO.
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ASSIGNMENT

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WHEREAS, Taiwan Semiconductor Manufacturing Company, Ltd. (TSMC), a corporation organized and existing under the laws of Taiwan, the Republic of China, with its principal office at 121, Park Avenue 3, Science-Based Industrial Park, Hsin-Chu, Taiwan 300, R.O.C., is desirous of acquiring my entire right, title and interest in and to the said invention, and to the said application and any Letters Patent that may issue thereon in the United States and all other countries throughout the world;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I hereby sell and assign to the said TSMC, its successors and assigns, my entire right, title and interest in and to the said invention and in to the said application and all patents which may be granted therefor, and all divisions, reissues, substitutions, continuations, and extensions thereof; and I hereby authorize and request the Commissioner for Patents to issue all patents for said invention, or patent resulting therefrom, insofar as my interest is concerned, to the said TSMC, as assignee of my entire right, title and interest. I declare that I have not executed and will not execute any agreement in conflict herewith.

I also hereby sell and assign to TSMC, its successors and assigns, my foreign rights to the invention disclosed in said application, in all countries of the world, including, but not limited to, the right to file applications and obtain patents under the terms of the International Convention for the Protection of Industrial Property, and of the European Patent Convention, and further agree to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights.

I hereby further agree that I will communicate to said TSMC, or to its successors, assigns, and legal representatives, any facts known to me respecting said invention or the file history thereof, and at the expense of said assignee company, testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, reissue and substitute applications, make all lawful oaths, and generally do everything possible to aid said TSMC, its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in all countries.

IN WITNESS WHEREOF, I hereunto set my hand and seal this day and year;

TITLE OF INVENTION	Method Of Defining Forbidden Pitches For A Lithography Exposure Tool			
SIGNATURE OF INVENTOR AND NAME	✓ <i>King-Chang Shu</i> King-Chang Shu	✓ <i>Li-Jui Chen</i> Li-Jui Chen		
DATE	✓ 10/14/2003	✓ 10/14/2003		
RESIDENCE (City, County, State)	Taipei, Taiwan, R.O.C.	Hsin-Chu, Taiwan, R.O.C.		

TSM02-1293

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Assignment

TOTAL P.06

RECORDED: 10/17/2003

PATENT
REEL: 014626 FRAME: 0822