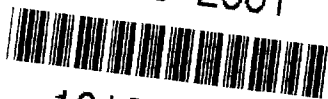


PTO-1595

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12-26-2001



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SHEET U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

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

1 Name of conveying party(ies):

Chih-Chen Chuang
Cheng-Hsiang Huang
Der-Yun Liu

11/30/01

2 Name and address of receiving party(ies):

Taiwan Semiconductor Manufacturing Co. Ltd.
No. 121 Park Avenue 3
Science-Based Industrial Park
Hsin-Chu, Taiwan, R.O.C.PTO
09/998493
11/30/01

3 Nature of conveyance:

- ☒ Assignment ☐ Merger
- ☐ Security Agreement ☐ Change of Name

☐ Other:Execution Date: October 9, 2001Additional 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: 10-09-01

A. Patent Application No(s).

B. Patent No(s)

Additional numbers attached? ☐ Yes ☒ No

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

RANDY W. TUNG
Tung & Associates
838 W. Long Lake Road
Suite 120
Bloomfield Hills, Michigan 48302

6 Total number of applications and patents involved:

1

7 Total fee (37 CFR 3.41)

\$40.00

- ☐ Enclosed
- ☒ Authorized to charge credit card (w/filing fee)

8 Deposit Account Number: 50-0484

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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.*Randy W. Tung
Name of Person Signing
Registration No. 31,311

Signature

November 30, 2001
DateTotal number of pages including cover sheet, attachments, and document : 3

Mail documents to be recorded with required cover sheet information to:

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Washington, D.C. 20231

67,200-602

PATENT

REEL: 012383 FRAME: 0198

ASSIGNMENT

WHEREAS, we, CHIH-CHEN CHUANG, CHENG-HSIANG HUANG and DER-YUN LIU, have invented certain improvements in
DUAL CUP SPIN COATING SYSTEM

for which we are about to make application for Letters Patent of the United States; and

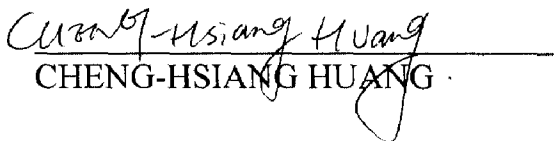
WHEREAS, TAIWAN SEMICONDUCTOR MANUFACTURING CO., LTD. of
No. 121, Park Avenue 3, Science-Based Industrial Park, Hsin-Chu, Taiwan, R.O.C, is desirous of
acquiring the entire right, title and interest in and to said invention;

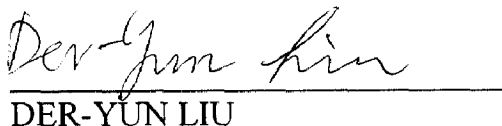
NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and
valuable consideration, the receipt of which is hereby acknowledged, we, CHIH-CHEN CHUANG,
CHENG-HSIANG HUANG and DER-YUN LIU, by these presents, do hereby sell, assign and
transfer unto the said corporation and its assigns, for the territory of the United States of America
and all foreign countries, the entire right, title and interest, including all priority rights under the
International Convention associated with each country of the Union, in and to said invention as
described in the patent application executed by us on the 9th day of Oct, 2001,
preparatory to obtaining Letters Patent of the United States thereon, and in and to said application
and any Letters Patent that may be granted in pursuance of said application and any divisional,
continuation or continuation-in-part application thereof, and in and to any reissue of any such patent,

and in and to any patent applications which may be filed on said invention in countries foreign to the United States and any Letters Patent granted thereon.

We further authorize said corporation to apply for foreign patents on said invention in its own name or through its designees, including subsidiaries, related companies or assignees, under the International Convention or otherwise, and we further agree to execute all papers, including those required for the United States and foreign applications, and to perform such other proper acts as said corporation or its designees the rights herein assigned.


CHIH-CHEN CHUANG


CHENG-HSIANG HUANG


DER-YUN LIU

TUNG & ASSOCIATES
838 W. Long Lake Road
Suite 120
Bloomfield Hills, Michigan 48302