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

## 1 Name of conveying party(ies):

Danniel Rcraw, Tsun-Ching Lin,  
Ren-Zhi Deng and Chin-Chuan  
Kuo

R

## 2 Name and address of receiving party(ies):

Taiwan Semiconductor Manufacturing  
Company, Ltd.  
No. 121 Park Avenue 3  
Science-Based Industrial Park  
Hsin-Chu, Taiwan,  
R.O.C.

Execution Date: January 13, 1999

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

## 4 Application number(s) or patent number(s):

09/283,065

If this document is being filed together with a new application, the execution date of the application is: 01-13-99

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 be charged to deposit account

## 8 Deposit Account Number:

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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

03-31-99

Date

Total 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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PATENT

44/12/1999 JWS/SHS 0000004 09/283065  
FC:581

MRD 3-31-99

03/31/99  
09/283065  
JWS/SHS

ASSIGNMENT

WHEREAS, we, DANNIEL RCRAW, TSUN-CHING LIN, REN-ZHI DENG AND CHIN-CHUAN KUO, have invented certain improvements in MARCO LAMP LIFE EXTENSION IN INSTALLATION FOR ADI, AEI 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, DANNIEL RCRAW, TSUN-CHING LIN, REN-ZHI DENG AND CHIN-CHUAN KUO, 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 13<sup>th</sup> day of January, 1999, 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.

*Danniel RCraw*

DANNIEL RCRAW

*TSUN-CHING LIN*

TSUN-CHING LIN

*Ren Zhi Deng*

REN-ZHI DENG

*CHIN-CHUAN KUO*

CHIN-CHUAN KUO

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