

Form PTO-1595
(Rev. 03/01)

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OMB No. 0651-0027 (exp. 5/31/2002)

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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):

- 1. Fu-Tien Weng
- 2. Yu-Kung Hsiao
- 3. Chin-Kung Chang
- 4. Hung-Jen Hsu
- 5. Yi-Ming Dai
- 6. Chin-Chen Kuo
- 7. Chung Sheng Hsiung
- 8. Po-Wen Lin

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

2. Name and address of receiving party(ies)

Name: Taiwan Semiconductor Manufacturing Co., Ltd.

Internal Address: _____

Street Address: No. 8, Li-Hsin Road 6

Science Based Industrial Park

City: Hsin-Chu State: _____ Zip: _____

Country: Taiwan 300-77 R.O.C.
Additional name(s) & address(es) attached? Yes No

3. Nature of conveyance:

- Assignment
- Security Agreement
- Other _____
- Merger
- Change of Name

Execution Date: 04/09/2004

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: _____

A. Patent Application No.(s) 10/833,565

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 E. Koffs, Esquire

Internal Address: Duane Morris LLP

Street Address: One Liberty Place

City: Philadelphia State: PA Zip: 19103

6. Total number of applications and patents involved:

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

- Enclosed
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04-1679

8. Deposit account number: _____

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9. Signature.

Richard A. Paikoff
Name of Person Signing

Richard A. Paikoff
Signature

7/27/2005
Date

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FORM PTO-1595

05-04-2004

U.S. DEPT. OF COMMERCE
Patent and Trademark

Office

4-28-04



TS02-103

102736934

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

1. Name of conveying party(ies):

FU-TIEN WENG, YU-KUNG HSIAO, CHIN-KUNG
CHANG, HUNG-JEN HSU, YI-MING DAI,
CHIN-CHEN KUO

Additional name(s) or conveying party(ies) attached? Yes No

3. Nature of conveyance

- Assignment Merger
- Security Agreement Change of Name
- other _____

Execution Date: 4/9/04

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

Name: Taiwan Semiconductor Manufacturing Co. Ltd

Internal Address:

Street Address:

No. 8, Li-Hsin Rd. 6
Science-Based Industrial Park
Hsin-Chu, Taiwan 300-77
Taiwan, R.O.C.

Additional name & address attached? Yes No

17513 U.S. PTO
107833565



042804

4. Application number(s) or patent number(s): 10833565

If this document is being filed together with a new application, the execution date of the application is: 4/9/04

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:

Name: GEORGE O. SAILE
Internal Address: _____

Street Address: 28 DAVIS AVENUE

City: POUGHKEEPSIE State: NY ZIP: 12603

6. Total no. of applications and patents involved: 1

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

- Enclosed
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8. Deposit account number: 19-0033

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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

STEPHEN B. ACKERMAN

Name of Person Signing

Signature

4/28/04

Date

05/03/2004 BTM11 0000042 190033 10833565

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PATENT

REEL: 016581 FRAME: 0047

TS02-103

For U.S. and/or Foreign Rights

For Application or U.S. Patent

By Inventor(s) or Present Owner

ASSIGNMENT OF INVENTION

In consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

ASSIGNOR:

FU-TIEN WENG
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~~(YK Hsiao)~~ YK Hsiao
4/9/2004

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Nationality

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Nationality

ASSIGNEE:

Taiwan Semiconductor Manufacturing Co.
No. 8, Li-Hsin Rd. 6
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Hsin-Chu Taiwan 300-77
R.O.C.
Nationality

and the successors, assigns and legal representatives of the ASSIGNEE

(complete one of the following)

- the entire right, title and interest
- an undivided _____ percent (____%) interest for the United States and its territorial possessions
(check the following box if foreign rights are also to be assigned)
- and in all foreign countries

in and to any and all improvements which are disclosed in the invention entitled:

An Effective Method To Improve Sub-Micron Color Filter Sensitivity

TS02-103

For U.S. and/or Foreign Rights

For Application or U.S. Patent

By Inventor(s) or Present Owner

ASSIGNMENT OF INVENTION

In consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

ASSIGNOR:

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Nationality
Taiwan

PO-WEN LIN
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Po-Wen Lin
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No 10, Lane 237, St. Cheng-Ren
Chiay-yi city, Taiwan, R.O.C., Republic of China
Nationality

ASSIGNEE:

Taiwan Semiconductor Manufacturing Co.
No. 8, Li-Hsin Rd. 6
Science Based Industrial Park
Hsin-Chu Taiwan 300-77
R.O.C.
Nationality

and the successors, assigns and legal representatives of the ASSIGNEE
(complete one of the following)

- the entire right, title and interest
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in and to any and all improvements which are disclosed in the invention entitled:

An Effective Method To Improve Sub-Micron Color Filter Sensitivity

and which is found in

- (a) U.S. patent application executed on even date herewith
- (b) U.S. patent application executed on _____
- (c) U.S. application serial no. _____ filed on _____
- (d) U.S. patent no. _____ issued _____
(also check (e) if foreign application(s) is also being assigned)
- (e) and any legal equivalent thereof in a foreign country, including the right to claim priority

and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute, thereof, and as to letters patent any re-issue or re-examination thereof.

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, I/We have signed this
4/9/2004 (Date of signing)

WARNING Date of signing must be the same as the date of execution of the application if item (a) was checked above.

Yu-Kung Hsiao
Signature of ASSIGNOR(S)
Hung-Ten Hsu
Po-Wen Lin
Chin Chen Kuo

If ASSIGNOR is a legal entity complete the following information

Type or print the name of the above person authorized to sign on behalf of ASSIGNOR

Title

Note: No witnessing, notarization or legalization is necessary, if the assignment is notarized or legalized then it will only be prima facie evidence (35 USC 261). Use next page if notarization is desired.

Notarization or Legalization Page Added.

and which is found in

- (a) U.S. patent application executed on even date herewith
- (b) U.S. patent application executed on _____
- (c) U.S. application serial no. _____ filed on _____
- (d) U.S. patent no. _____ issued _____
(also check (e) if foreign application(s) is also being assigned)
- (e) and any legal equivalent thereof in a foreign country, including the right to claim priority

and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute, thereof, and as to letters patent any re-issue or re-examination thereof.

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, I / We have signed this

4/9/2004 (Date of signing)

WARNING Date of signing must be the same as the date of execution of the application if item (a) was checked above.

Signature of ASSIGNOR(S)

Fu-Tien Weng

Yi-Ming - DAI

Chih-Hung Chang

Chin Chen Kuo

Chung Sheng Hsiung

If ASSIGNOR is a legal entity complete the following information

Type or print the name of the above person authorized to sign on behalf of ASSIGNOR

Title

Note: No witnessing, notarization or legalization is necessary, if the assignment is notarized or legalized then it will only be prima facie evidence (35 USC 261). Use next page if notarization is desired.

Notarization or Legalization Page Added.