

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4891946

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the THE NAME OF 4TH ASSIGNOR previously recorded on Reel 044604 Frame 0552. Assignor(s) hereby confirms the ASSIGNMENT.
CONVEYING PARTY DATA	
Name	Execution Date
HSIANG-CHU HU	12/12/2017
CHUN-HAI HUANG	12/12/2017
MU-HAN CHENG	12/11/2017
YU-CHIN TSENG	02/13/2018
CHIEN-CHIH CHEN	12/11/2017
TZU-SHIN CHEN	12/12/2017
RECEIVING PARTY DATA	
Name:	TAIWAN SEMICONDUCTOR MANUFACTURING CO., LTD.
Street Address:	NO.8, LI-HSIN RD. 6, HSINCHU SCIENCE PARK,
City:	HSINCHU
State/Country:	TAIWAN
Postal Code:	30078
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15869056
CORRESPONDENCE DATA	
Fax Number:	
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
Email:	USA@JCIPGroup.com
Correspondent Name:	JCIPRNET
Address Line 1:	P.O. BOX 600 TAIPEI GUTING
Address Line 4:	TAIPEI, TAIWAN 10099
ATTORNEY DOCKET NUMBER:	73349-US-PA
NAME OF SUBMITTER:	BELINDA LEE
SIGNATURE:	/Belinda Lee/
DATE SIGNED:	03/30/2018
Total Attachments: 6	

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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT477308

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
HSIANG-CHU HU	12/12/2017
CHUN-HAI HUANG	12/12/2017
MU-HAN CHENG	12/11/2017
YU-CHIN TSEN YU-CHIN TSENG	12/21/2017- 2/13/2018
CHIEN-CHIH CHEN	12/11/2017
TZU-SHIN CHEN	12/12/2017

RECEIVING PARTY DATA

Name:	TAIWAN SEMICONDUCTOR MANUFACTURING CO., LTD.
Street Address:	NO.8, LI-HSIN RD. 6, HSINCHU SCIENCE PARK,
City:	HSINCHU
State/Country:	TAIWAN
Postal Code:	30078

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15869056

CORRESPONDENCE DATA

Fax Number:

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 8775045885, EXT 1
Email: USA@JCIPGROUP.COM
Correspondent Name: JCIPRNET
Address Line 1: P.O. BOX 600 TAIPEI GUTING
Address Line 4: TAIPEI CITY, TAIWAN 10099

ATTORNEY DOCKET NUMBER:	73349-US-PA
NAME OF SUBMITTER:	BELINDA LEE
SIGNATURE:	/Belinda Lee/
DATE SIGNED:	01/12/2018

Total Attachments: 3

JL
(P)

P20172979US00
73349-US-PA

**DECLARATION AND ASSIGNMENT
FOR UTILITY OR DESIGN PATENT APPLICATION**

Declaration Submitted With Initial Filing

OR

☒ Declaration Submitted After Initial Filing (surcharge 37 CFR 1.16(f) required)

(Title of the Invention)

**SYSTEM, CONTROL METHOD AND APPARATUS FOR CHEMICAL
MECHANICAL POLISHING**

As a below named inventor (hereinafter designated as the undersigned), I hereby
declare that:

This declaration is directed to:

The attached application,

OR

☒ United States Application Number or PCT International application number

15/869,056 Filed on 2018.1.12

The above-identified application was made or authorized to be made by me.

I believe I am the original inventor or an original joint inventor of a claimed invention in
the application.

The undersigned hereby acknowledge that any willful false statement made in this
declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more
than five (5) years, or both.

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73349-US-PA

**DECLARATION AND ASSIGNMENT
FOR UTILITY OR DESIGN PATENT APPLICATION**

WHEREAS, the undersigned has invented certain new and useful improvements described in the application identified.

WHEREAS 1. Taiwan Semiconductor Manufacturing Co., Ltd.
of No.8, Li-Hsin Rd. 6, Hsinchu Science Park, Hsinchu, Taiwan 300-78,
R.O.C.

hereinafter referred to as ASSIGNEE, is desirous of acquiring the undersigned's interest in the said invention and application and in any U.S. Letters Patent which may be granted on the same:

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for good and valuable consideration, receipt of which is hereby acknowledged by the undersigned, the undersigned has/have sold, assigned and transferred, and by these presents does/do sell, assign and transfer unto the said Assignee, and Assignee's successors and assigns, all his/her/their rights, title and interest in and to the said invention and application and all future improvements thereon, and in and to any Letters Patent which may hereafter be granted on the same in the United States, the said rights, title and interest to be held and enjoyed by said Assignee as fully and exclusively as it would have been held and enjoyed by said the undersigned had this Assignment and transfer not been made, to the full end and term of any Letters Patent which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

The undersigned further agrees/agree that he/she/they will, without charge to said Assignee, but at Assignee's expense, cooperate with Assignee in the prosecution of said application and/or applications, execute, verify, acknowledge and deliver all such further papers, including applications for Letters Patent and for the reissue thereof, and instruments of assignment and transfer thereof, and will perform such other acts as Assignee Lawfully may request, to obtain or maintain Letters Patent for said invention and improvement, and to vest title thereto in said Assignee, or Assignee's successors and assigns.

P20172979US00
73349-US-PA

DECLARATION AND ASSIGNMENT
FOR UTILITY OR DESIGN PATENT APPLICATION

Signature: Hsiang - Chu Hu Date: Dec. 12. 2017
Legal Name of Sole or First Inventor: Hsiang - Chu Hu
Residence: Tainan City, Taiwan
Mailing Address: c/o No.8, Li-Hsin Rd. 6, Hsinchu Science Park, Hsinchu, Taiwan 300-78, R.O.C.

Signature: Chun-Hai Huang Date: Dec. 12. 2017
Legal Name of Additional Joint Inventor, if any: Chun-Hai Huang
Residence: Changhua County, Taiwan
Mailing Address: c/o No.8, Li-Hsin Rd. 6, Hsinchu Science Park, Hsinchu, Taiwan 300-78, R.O.C.

Signature: Mu-Han Cheng Date: Dec. 11. 2017
Legal Name of Additional Joint Inventor, if any: Mu-Han Cheng
Residence: Tainan, Taiwan
Mailing Address: c/o No.8, Li-Hsin Rd. 6, Hsinchu Science Park, Hsinchu, Taiwan 300-78, R.O.C.

Signature: Yu-Chin Tseng Feb. 13. 2018
Yu-Chin Tseng Date: Dec. 21. 2017
Legal Name of Additional Joint Inventor, if any: Yu-Chin Tseng
Residence: Tainan City, Taiwan
Mailing Address: c/o No.8, Li-Hsin Rd. 6, Hsinchu Science Park, Hsinchu, Taiwan 300-78, R.O.C.

Signature: Chien-Chih Chen Date: Dec. 11. 2017
Legal Name of Additional Joint Inventor, if any: Chien-Chih Chen
Residence: Changhua County, Taiwan
Mailing Address: c/o No.8, Li-Hsin Rd. 6, Hsinchu Science Park, Hsinchu, Taiwan 300-78, R.O.C.

Signature: Tzu-Shin Chen Date: Dec. 12. 2017
Legal Name of Additional Joint Inventor, if any: Tzu-Shin Chen
Residence: Tainan City, Taiwan
Mailing Address: c/o No.8, Li-Hsin Rd. 6, Hsinchu Science Park, Hsinchu, Taiwan 300-78, R.O.C.