PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT2652518

SUBMISSION TYPE:		NEW ASSIGNMENT				
NATURE OF CONVEYANCE:		ASSIGNMENT				
CONVEYING PARTY DATA						
Name			lame	Execution Date		
CHUNG-LIANG CHENG				12/10/2013		
YEN-YU CHEN				12/10/2013		
CHANG-SHENG LEE				12/10/2013		
WEI ZHANG				12/10/2013		
RECEIVING PARTY DATA						
Name: TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY LTD.						
Street Address:	NO.8, LI-HSIN RD. 6, HSINCHU SCIENCE PARK,					
City:	HSINCHU	HSINCHU				
State/Country:	State/Country: TAIWAN					
PROPERTY NUMBERS Total: 1						
Property Type			Number			
Application Number: 141		41098	844			
CORRESPONDENCE DATA						
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			the email attempt is unsuccessful.			
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Address Line 1: P.O. BOX 220746 Address Line 4: CHANTILLY, VIRGINIA 20153						
ATTORNEY DOCKET NUMBER:		US2941				
NAME OF SUBMITTER:		PIN PIN HUANG				
Signature:		/Pin Pin Huang/				
Date:		12/17/2013				
Total Attachments: 2 source=US2941-ASSG#page1.tif source=US2941-ASSG#page2.tif						

<u>ASSIGNMENT</u>

WHEREAS, I(we), CHENG, CHUNG-LIANG, CHEN, YEN-YU, LEE, CHANG-SHENG and ZHANG, WEI, whose post office address(es) appear(s) below, hereinafter referred to as ASSIGNOR, have invented certain new and useful invention entitled COMPOSITION AND METHOD FOR CHEMICAL MECHANICAL POLISHING (hereinafter referred to as the INVENTION) for which an application for United States Letters Patent /Utility Patent is executed on even date herewith unless at least one of the following is checked: United States Design Patent was C executed on: filed on: Serial No.: C established by PCT International Patent Application No.: filed: designating the United States of America □ issued on ______as U.S. Patent No.:_____ WHEREAS, TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY LTD. whose post office

address is <u>NO.8, LI-HSIN RD. 6, HSINCHU SCIENCE PARK, HSINCHU, TAIWAN, R.O.C.</u> hereinafter referred to as ASSIGNEE, is desirous of acquiring the entire right, title and interest in and to the same in the United States and its territorial possessions;

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, I (we), ASSIGNOR, by these presents do sell, assign and transfer unto said ASSIGNEE, the entire right, title, and interest in and to said INVENTION and application throughout the United States of America, including any and all Letters Patent granted on any division, continuation, continuation-in-part and reissue of said application for the full term or terms for which the same may be granted, including all priority rights under any International Convention.

ASSIGNOR further covenants that no assignments, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this Assignment;

ALSO, ASSIGNOR hereby agrees to execute any documents that legally may be required in connection with the filing, prosecution and maintenance of said application or any other patent application(s) in the United States for said INVENTION, including additional documents that may be required to affirm the rights of ASSIGNEE in and to said INVENTION, all without further consideration. ASSIGNOR also agrees, without further consideration and at ASSIGNEE's expense, to identify and communicate to ASSIGNEE at ASSIGNEE's request documents and information concerning the INVENTION that are within ASSIGNOR'S possession or control, and to provide further assurances and testimony on behalf of ASSIGNEE that lawfully may be required of ASSIGNOR in respect of the prosecution, maintenance, litigation and defense of any patent application or patent encompassed within the terms of this instrument. ASSIGNOR'S obligations under this instrument shall extend to ASSIGNOR's heirs, executors, administrators and other legal representatives.

ALSO, ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all Letters Patent referred to above to ASSIGNEE, as the ASSIGNEE of the entire right, title and interest in and to the same, for ASSIGNEE'S sole use and behoof; and for the use and behoof of ASSIGNEE'S legal representatives and successors, to the full end of the term for which such Letters Patent may be granted, as fully and entirely as the same would have been held by ASSIGNOR had this assignment and sale not been made.

Assignor Name CHENG, CHUNG-LIANG	Address NO.259, CHENLENG RD, CHANGHUA COUNTY 500, TAIWAN (R.O.C.)
Signature of Assignor CMUND - CAMY CheWY Name of Witness (optional)	Date of Signature Name of Witness (optional)
Signature of Witness (optional)	Signature of Witness (Optional)

PATENT REEL: 031803 FRAME: 0806

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Assignor Name CHEN, YEN-YU	Address 10F1, NO.76, LANE 18, SHANG-AN RD., XITUN DISTRICT, TAICHUNG CITY 407, TAIWAN (R.O.C.)
Signature of Assignor Yen - Yu Chen	Date of Signature $\mathcal{V}/\mathcal{J}/\mathcal{I}/\mathcal{I}$
Name of Witness (Aptional)	Name of Witness (optional)
Signature of Witness (optional)	Signature of Witness (Optional)

Assignor Name LEE, CHANG-SHENG	Address NO. 38-21, LANE 72, KUANHWAI 2 STREET, SHIN-CHU CITY, TAIWAN (R.O.C.)
Signature of Assigner	Date of Signature 入り、レントレロ
Name of Witness (optional)	Name of Witness (optional)
Signature of Witness (optional)	Signature of Witness (Optional)

Assignor Name ZHANG, WEI	Address 7F, NO.12, LANE 168, ZIQANG ROAD N., CHUPEI CITY, HSINCHU COUNTY, TAIWAN (R.O.C.)
Signature of Assignor	Date of Signature
Name of Witness (optional)	Name of Witness (optional)
Signature of Witness (optional)	Signature of Witness (Optional)

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RECORDED: 12/17/2013