

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT5317326

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	MIN-CHENG WU	12/26/2018
	CHI-HUNG LIAO	12/18/2018
RECEIVING PARTY DATA		
Name:	TAIWAN SEMICONDUCTOR MANUFACTURING CO., LTD.	
Street Address:	NO.8, LI-HSIN RD.6	
Internal Address:	SCIENCE-BASED INDUSTRIAL PARK	
City:	HSINCHU	
State/Country:	TAIWAN	
Postal Code:	300	
PROPERTY NUMBERS Total: 1		
Property Type	Number	
Application Number:	16243726	
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:	kcale@mabr.com	
Correspondent Name:	R. BURNS ISRAELSEN	
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ATTORNEY DOCKET NUMBER:	T1516.10530US02	
NAME OF SUBMITTER:	R. BURNS ISRAELSEN	
SIGNATURE:	/R. Burns Israelsen, Reg. No. 42685/	
DATE SIGNED:	01/09/2019	
Total Attachments: 2		
source=T1516.10530US02 Assignment#page1.tif		
source=T1516.10530US02 Assignment#page2.tif		

ASSIGNMENT

This assignment agreement is applicable to an invention entitled (Invention Title) _____
CLEANING METHOD AND APPARATUS

The PATENT RIGHTS referred to in this agreement are:

(check one) ☒ a patent application for this invention, executed by the ASSIGNOR(S)
 concurrently with this assignment.

☒ U.S. patent application Serial No. 16/243,726, filed January 9, 2019

☐ a U.S. patent application based on PCT International Application

No. _____ filed on (date) _____ (U.S. patent application
 Serial No. _____, if known).

☐ U.S. patent No. _____, issued _____.

The PATENT RIGHTS also include all divisions, reissues, continuations and extensions of
 the patents and patent applications identified above.

The PATENT RIGHTS assigned under this agreement are:

(check one) ☒ U.S. patent rights only.

☐ Worldwide patent rights. In this case, the assignee shall have the right to
 claim the benefit of the filing date of any U.S. or foreign patent application
 for this invention.

The ASSIGNOR(S) referred to in this agreement is (or are) the inventor(s) whose signatures
 appear on page 2 of this Assignment and any Supplemental Sheet(s).

The ASSIGNEE referred to in this agreement is:

(Name of Assignee) TAIWAN SEMICONDUCTOR MANUFACTURING CO., LTD.

(Address) NO.8, LI-HSIN RD.6, SCIENCE-BASED INDUSTRIAL PARK, HSINCHU,
TAIWAN 300, R.O.C.

The ASSIGNEE is:

(check one) ☐ An individual.

☐ A Partnership.

☒ A Corporation of TAIWAN, R.O.C. (specify state or country)

☐ (other) _____

The ASSIGNOR(S), in consideration of \$10.00 paid by the ASSIGNEE, and other good and
 valuable consideration, receipt of which is acknowledged, hereby assign(s) the following
 rights to the ASSIGNEE, its successors and assigns:

the full and exclusive right to the invention;

the entire right, title and interest in and to the PATENT RIGHTS;

the right to sue and recover for any past infringement; and

the right to claim priority under 35 USC 119, 35 USC 120, or any other applicable
 provisions, based on any earlier patent applications for this invention.

THIS IS PAGE 2 OF AN ASSIGNMENT FROM THE INVENTOR(S) TO
ASSIGNEE: TAIWAN SEMICONDUCTOR MANUFACTURING CO., LTD.
INVENTION TITLE: CLEANING METHOD AND APPARATUS

As to all U.S. patent applications assigned under this agreement, the ASSIGNOR(S) hereby authorize(s) and request(s) the Commissioner of Patents and Trademark to issue all Letters Patent to the ASSIGNEE as the assignee of the entire right, title and interest, for the sole use and enjoyment of said ASSIGNEE, its successors and assigns.

Further, the ASSIGNOR(S) agree(s) to communicate to said ASSIGNEE, or its representatives, any fact known to the ASSIGNOR(S) with respect to said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal, reexamination and reissue applications, execute all necessary assignment papers to cause and all Letter Patent to be issued to said ASSIGNEE, make all rightful oaths and generally do everything necessary or desirable to aid said ASSIGNEE, its successors and assigns, to obtain and enforce proper protection for said invention.

The ASSIGNOR(S) authorize(s) the attorneys and agents who have the power of attorney in this application to check any appropriate boxes and to insert the Serial Number and filing date in this document after it has been executed.

Min-Cheng WU

Name of sole or first inventor

Min-Cheng WU

Signature

2018/12/26

Date

Chi-Hung LIAO

Name of second inventor, if any

Chi-Hung LIAO

Signature

2018/12/18

Date