# 505408174 04/03/2019

# PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
CHIAO-CHUN HSU	03/22/2019
CHIH-MING CHEN	03/22/2019
CHUNG-YI YU	03/22/2019
SHENG-HSUN LU	03/22/2019

#### **RECEIVING PARTY DATA**

Name:	TAIWAN SEMICONDUCTOR MANUFACTURING CO., LTD.	
Street Address:	NO. 8, LI-HSIN RD. 6	
Internal Address:	HSIN-CHU SCIENCE PARK	
City:	HSIN-CHU	
State/Country:	TAIWAN	
Postal Code:	300-77	

# **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	16352227

## **CORRESPONDENCE DATA**

**Fax Number:** (216)502-0601

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:** 216-502-0600

**Email:** docketing@eschweilerlaw.com **Correspondent Name:** ESCHWEILER & POTASHNIK, LLC

Address Line 1: ROSETTA CENTER

Address Line 2: 629 EUCLID AVE., SUITE 1000
Address Line 4: CLEVELAND, OHIO 44114

ATTORNEY DOCKET NUMBER:	TSMCP985US
NAME OF SUBMITTER: MATTHEW W. GLAUSE	
Matthew W. Glause/	
DATE SIGNED:	04/03/2019

**Total Attachments: 6** 

PATENT REEL: 048777 FRAME: 0802

PATENT REEL: 048777 FRAME: 0803

# **PATENT ASSIGNMENT**

## PARTIES TO THE ASSIGNMENT

Assignor(s):
Chiao-Chun Hsu
Assignor(s):
Chih-Ming Chen
Assignor(s):
Chung-Yi Yu
Assignor(s):
Sheng-Hsun Lu

Assignee:

Taiwan Semiconductor Manufacturing Co., Ltd. No. 8, Li-Hsin Rd. 6, Hsin-Chu Science Park Hsin-Chu, Taiwan 300-77 Republic of China

## **AGREEMENT**

WHEREAS, ASSIGNOR(S) (listed above) are inventor(s) of an invention entitled

"A SEMICONDUCTOR TOOL HAVING CONTROLLABLE AMBIENT ENVIRONMENT PROCESSING ZONES" for which:

a n	on-provisional application for United States Letters Patent:
$\boxtimes$	was executed on even date preparatory to filing (each inventor should sign this
	Assignment on the same day as he/she signs the Declaration); or
	was filed on and accorded U.S. Serial No; or
	I hereby authorize and request my attorney associated with Customer No.
	107476, to insert on the designated lines below the filing date and application
	number of said application when known:
	U.S. Serial No.
	filed on

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TSMC Docket No. P20182791US00

Docket No. TSMCP985US

WHEREAS, ASSIGNEE (listed above), a corporation of the Republic of China is

desirous of acquiring the entire right, title and interest in and to the invention and in and to

any letters patent that may be granted therefore in the United States and in any and all

foreign countries;

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of

which is hereby acknowledged, ASSIGNOR(S) hereby sell, assign and transfer unto

ASSIGNEE its successors and assigns, the entire right, title and interest in and to said

invention and improvements, said application and any and all letters patent which may be

granted for said invention in the United States of America and its territorial possessions and

in any and all foreign countries, and in any and all divisions, reissues, re-examinations and

continuations thereof, including the right to file foreign applications directly in the name of

ASSIGNEE and to claim priority rights deriving from said United States application to which

said foreign applications are entitled by virtue of international convention, treaty or otherwise.

said invention, application and all letters patent on said invention to be held and enjoyed by

ASSIGNEE and its successors and assigns for their use and benefit and of their successors

and assigns as fully and entirely as the same would have been held and enjoyed by

ASSIGNOR(S) had this assignment, transfer and sale not been made. ASSIGNOR(S)

hereby authorize and request the Commissioner of Patents and Trademarks to issue all

letters patent on said invention to ASSIGNEE. ASSIGNOR(S) agree to execute all

instruments and documents required for the making and prosecution of applications for

United States and foreign letters patent on said invention, for litigation regarding said letters

patent, or for the purpose of protecting title to said invention or letters patent therefore.

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**PATENT** 

**REEL: 048777 FRAME: 0805** 

3/52 >019 Chiao - Chun Visu
Date Name 1st Inventor Chiao-Chun Hsu

3/22 2019

Date

Name 2<sup>nd</sup> Inventor Chih-Ming Chen

Plac (1/8

Date

Name 3rd Inventor Chung-Yi Yu

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