# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4899170

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

## **CONVEYING PARTY DATA**

Name	Execution Date
TSE-LUN HSU	11/21/2017
FANG-YU LIU	11/23/2017
TSEZ-CHONG TSAI	11/21/2017

# **RECEIVING PARTY DATA**

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

## **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	15713772

# **CORRESPONDENCE DATA**

Fax Number: (215)689-4930

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: 215-979-01809

Email: jluo@duanemorris.com

DUANE MORRIS LLP (TSMC) IP DEPARTMENT **Correspondent Name:** 

Address Line 1: 30 SOUTH 17TH STREET

Address Line 2: JIAZHONG LUO

Address Line 4: PHILADELPHIA, PENNSYLVANIA 19103-4196

ATTORNEY DOCKET NUMBER:	N1085-01718
NAME OF SUBMITTER:	JIAZHONG LUO
SIGNATURE:	/Jiazhong Luo/
DATE SIGNED:	04/04/2018

**Total Attachments: 2** 

source=15713772assignment#page1.tif source=15713772assignment#page2.tif

> **PATENT** REEL: 045435 FRAME: 0221 504852431

## SN15/713,772



## ATTORNEY DOCKET NO.: P20171337US00/N1085-01718

# ASSIGNMENT AND AGREEMENT

For value received, we, Tse-Lun Hsu, Fang-Yu Liu, and Tsez-Chong Tsai, hereby
transfer to Taiwan Semiconductor Manufacturing Co., Ltd., with its principal place of
business located at No. 8, Li-Hsin Road 6, Hsinchu Science Park, Hsin-Chu 300-77, Taiwan,
Republic of China, and its successors, assigns and legal representatives, the entire right, title
and interest, for the United States of America, in and to certain inventions related to
APPARATUS FOR STORING AND TRANSPORTING SEMICONDUCTOR
ELEMENTS, AND METHOD OF MAKING THE SAME, described in non-provisional
patent application S.N filed, and under any and all Letters
Patent and any divisions, continuations, continuations-in-part, reexamination certificates,
reissues, and extensions thereof, or claiming priority therefrom that may be granted in the
United States for said inventions; and we also concurrently hereby sell, assign and transfer to
Taiwan Semiconductor Manufacturing Co., Ltd. the entire right, title and interest in and to
said inventions for all countries foreign to the United States, including all rights of priority
arising from the application aforesaid, and all the rights and privileges under any and all
forms of protection, including Letters Patent, that may be granted in said countries foreign to
the United States for said inventions.

We authorize Taiwan Semiconductor Manufacturing Co., Ltd. to make application for such protection in its own name and maintain such protection in any and all countries foreign to the United States, and to invoke and claim for any application for patent or other form of protection for said inventions, without further authorization from us, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

We hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of Taiwan Semiconductor Manufacturing Co., Ltd. to apply for patent or other form of protection for said inventions and to claim the aforesaid benefit of the right of priority.

We request that any and all patents for said inventions be issued to Taiwan Semiconductor Manufacturing Co., Ltd. in the United States and in all countries foreign to the United States, or to such nominees as Taiwan Semiconductor Manufacturing Co., Ltd. may designate.

-1-

DM2\8160965.1

## ATTORNEY DOCKET NO.: P20171337US00/N1085-01718

We agree that, when requested, we shall, without charge to Taiwan Semiconductor Manufacturing Co., Ltd. but at its expense, sign all papers, and do all acts which may be necessary, desirable or convenient in connection with said applications, patents, or other forms of protection.

Inventor No. 1

Dated: 11/21/2017

Address: No. 8, Li-Hsin Road 6, Hsinchu Science Park, Hsin-Chu 300-77, Taiwan (R.O.C.)

Inventor No. 2

Dated: 11/23 / >017

Fang-Yu Liu

Address: No. 8, Li-Hsin Road 6, Hsinchu Science Park, Hsin-Chu 300-77, Taiwan (R.O.C.)

Inventor No.3
Dated: 1/2/2017

Tsez-Chong Tsai

Address: No. 8, Li-Hsin Road 6, Hsinchu Science Park, Hsin-Chu 300-77, Taiwan (R.O.C.)

-2-

DM2\8160965.1

**PATENT** REEL: 045435 FRAME: 0223

RECORDED: 04/04/2018