### 505563298 07/09/2019

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5610095

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
YANG-CHE CHEN	02/14/2017
TSUNG-TE CHOU	02/14/2017
CHEN-HUA LIN	02/14/2017
HUANG-WEN TSENG	02/14/2017
CHWEN-MING LIU	02/20/2017

#### **RECEIVING PARTY DATA**

Name:	TAIWAN SEMICONDUCTOR MANUFACTURING CO., LTD.
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Internal Address:	SCIENCE-BASED INDUSTRIAL PARK
City:	HSINCHU
State/Country:	TAIWAN
Postal Code:	300

### **PROPERTY NUMBERS Total: 1**

Property Type	Number	
Application Number:	16505405	

### **CORRESPONDENCE DATA**

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NAME OF SUBMITTER:	R. BURNS ISRAELSEN	
SIGNATURE:	ATURE: /R. Burns Israelsen, Reg. No. 42685/	
DATE SIGNED:	07/09/2019	

PATENT 505563298 REEL: 049704 FRAME: 0581

# **Total Attachments: 2**

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PATENT REEL: 049704 FRAME: 0582

## ASSIGNMENT

·
This assignment agreement is applicable to an invention entitled (Invention Title)
INTEGRATED CIRCUIT PACKAGE STRUCTURE AND TESTING METHOD USING
THE SAME
The PATENT RIGHTS referred to in this agreement are:
(check one) \( \subseteq \text{a patent application for this invention, executed by the ASSIGNOR(S)} \)
concurrently with this assignment.
☐U.S. patent application Serial No,filed
a U.S. patent application based on PCT International Application
Nofiled 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,
<u>TAIWAN 300, R.O.C.</u>
The ASSIGNEE is:
(check one) ☐ An individual.
A Partnership.
☐ A Corporation of
(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 REEL: 049704 FRAME: 0583

THIS IS PAGE 2 OF AN ASSIGNMENT FROM THE INVENTOR(S) TO ASSIGNEE: TAIWAN SEMICONDUCTOR MANUFACTURING CO., LTD. INVENTION TITLE: INTEGRATED CIRCUIT PACKAGE STRUCTURE AND TESTING METHOD USING THE SAME

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.

Yang-Che CHEN	Yang-Che Chen	2017.02.14
Name of sole or first inventor	Signature	Date
Tsung-Te CHOU	7 Suy-Te Chon	2017.02.14
Name of second inventor, if any	Signature	Date
Chen-Hua LIN  Name of third inventor, if any	Signature 2	>17.02.1¢ Date
Huang-Wen TSENG	Signature Ven Tseng HUTseng	20/7, 02, 14
Name of fourth inventor, if any	Signature	Date
Chwen-Ming LIU	Chwan Mig Lees	2017, 2.20
Name of fifth inventor, if any	Signature	Date

PATENT

REEL: 049704 FRAME: 0584

**RECORDED: 07/09/2019**