505144796 10/16/2018

# **PATENT ASSIGNMENT COVER SHEET**

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5191562

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
SHIH-LIEN LINUS LU	08/16/2018
CORMAC MICHAEL O'CONNELL	08/14/2018

## **RECEIVING PARTY DATA**

Name:	TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY LTD.	
Street Address:	NO.8, LI-HSIN RD. 6, HSINCHU SCIENCE PARK	
City:	HSINCHU	
State/Country:	TAIWAN	

# **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	16102628

## **CORRESPONDENCE DATA**

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NAME OF SUBMITTER:	ANTHONY KING
SIGNATURE:	/Anthony King/
DATE SIGNED:	10/16/2018

**Total Attachments: 2** 

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PATENT 505144796 REEL: 047187 FRAME: 0882

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Your Ref.: P20172884US00

US ONLY

# **ASSIGNMENT**

WHEREAS, I(we), <u>LU, SHIH-LIEN LINUS</u> and <u>O'CONNELL, CORMAC MICHAEL</u> whose post office address(cs) appear(s) below, hereinafter referred to as ASSIGNOR, have invented certain new and useful invention entitled

# SYSTEM TO GENERATE A SIGNATURE KEY AND METHOD OF OPERATING THE SAME

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(hereinafter referred to as the INVENTION) for which an appl is executed on even date herewith unless at least one of the i United States Design Patent was	ication for United States Lette following is checked:	ers Patent /Utility Patent
□ executed on:		
⊠ filed on: 13 August 2018 Serial	No.: 16/102,628	
☐ established by PCT International Patent Application	No.: filed:	d
United States of America	Tito.	designating the
issued on as U.S. Patent No.:_		
WHEREAS, TAIWAN SEMICONDUCTOR MANUE	ACTURING COMPANY	/ITD where and or
address is NO.8, LI-HSIN RD. 6, HSINCHU SCI	ENCE DADIC HOVE	LID. whose post office
hereinafter referred to as Assigned in designed -	ENCE PARK, HSINCH	<u>lu, 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 LU, SHIH-LIEN LINUS	F116, 16F-1, NO. 68, DA-HSIEH ROAD, EAST DIST., HSINCHU, TAIWAN (R.O.C.)
Signature of Assignor (X) Name of Witness (optional)	Date of Signature (X) 8 / 16 / 20 18  Name of Witness (optional)
Signature of Witness (optional)	Signature of Witness (Optional)

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Assignor Name O'CONNELL, CORMAC MICHAEL .	SUITE 600, 535 LEGGET DR., KANATA, ONTARIO, K2K-3B8, CANADA
Signature of Assignt Accept the Occasion	Date of Signature (X) 14 Aug 2018
Name of Witness (optional)	Name of Witness (optional)
Signature of Witness (optional)	Signature of Witness (Optional)

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PATENT REEL: 047187 FRAME: 0884