506180814 07/30/2020

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
WU-HUNG KO	07/03/2020
CHUNG-HUNG LIN	07/03/2020
CHIH-WEI WEN	07/08/2020

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:	16943881

CORRESPONDENCE DATA

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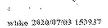
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ATTORNEY DOCKET NUMBER:	18506-1629
NAME OF SUBMITTER:	ANTHONY KING
SIGNATURE:	/Anthony King/
DATE SIGNED:	07/30/2020

Total Attachments: 2

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PATENT 506180814 REEL: 053359 FRAME: 0921



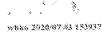
ASSIGNMENT

WHEREAS, I(we), KO, WU-HUNG, LIN, CHUNG-HUNG and WEN, CHIH-WEI whose post office address(es) appear(s) below, hereinafter referred to as ASSIGNOR, have invented certain new and useful invention emitted

CLEANING METHOD, METHOD FOR FORMING SEMICONDUCTOR STRUCTURE AND SYSTEM THEREOF

AND SY	STEM THERE	OF	
(hereinafter referred to as the INVENTION) for which is executed on even date herewith unless at least out United States Design Patent was	an application for 2 of the following	United States Lett is checked:	ers Patent /Utility Patent
☐ executed on:			
☐ filed on: ☐ established by PCT International Patent Apputed States of America ☐ issued onas U.S. Pate		filed:	designating the
C) 188866 OH as Cr. S. Fatt	38C13O.5		
WHEREAS, TAIWAN SEMICONDUCTOR Maddress is NO.8, LI-HSIN RD. 6, HSINCE hereinafter referred to as ASSIGNEE, is desirous of the United States and its territorial possessions; NOW, THEREFORE, for good and valuable of ASSIGNOR, by these presents do sell, assign and trained to said INVENTION and application throughout Patent granted on any division, continuation, continuents for which the same may be granted, including	IU SCIENCE acquiring the entire onsideration, receins fer unto said A at the United Statement on the United Statement of the U	PARK, HSINCI e right, title and int ipt of which is here SSIGNEE, the entire es of America, inc reissue of said app	terest in and to the same in eby acknowledged, I (we), e right, title, and interest in duding any and all Letters olication for the full term or
ASSIGNOR further covenants that no assignm or entered into which would conflict with this Assignment.	ents, sale, agreem gnment;	ent or encumbrance	e has been or will be made
ALSO, ASSIGNOR hereby agrees to execute any filing, prosecution and maintenance of said applic said INVENTION, including additional documents t said INVENTION, all without further consideration ASSIGNEE'S expense, to identify and communicate concerning the INVENTION that are within ASSIGNE testimony on behalf of ASSIGNEE that lawfully maintenance, litigation and defense of any pater instrument. ASSIGNOR'S obligations under this administrators and other legal representatives. ALSO, ASSIGNOR hereby authorizes and requiand all Letters Patent referred to above to ASSIGNE the same, for ASSIGNEE'S sole use and behoof; and successors, to the full end of the term for which	ation or any other hat may be requir . ASSIGNOR also to ASSIGNEE at A DR'S possession or may be required at application or is instrument sha tests the Commiss E, as the ASSIGNI I for the use and b such Letters Pater	patent application ed to affirm the rist agrees, without finesses agrees, without fines. SEGNEE'S request control, and to proof ASSIGNOR in a patent encompasse all extend to ASSIGNEE of the entire right whoof of ASSIGNEE at may be granted,	(s) in the United States for a ghts of ASSIGNEE in and to in the consideration and at documents and information wide further assurances and respect of the prosecution, d within the terms of this signor's heirs, executors, and Trademarks to issue any it, title and interest in and to 2's legal representatives and
same would have been held by ASSIGNOR had this		le noi been made.	
Assigner Name KO, WU-HUNG	Address NO.16, NORTH (R.O.C.	DIST., TAINA?	I, WENXIAN 2ND ST N CITY 704, TAIWAN
Signature of Assignor KOWU-HUW	G (X)	games J. V. A	3,2020
Name of Witness (optional)		(iness (optimal)	
Signature of Witness (optional)	Signature	of Witness (Optional)	

-1-



Assignor Name LIN, CHUNG-HUNG	NO.19, LN. 208, YUDE 1ST ST., NORTH DIST., TAINAN CITY 704, TAIWAN (R.O.C.)
Signature of Assignar (X/NGHUNG	Date of Signature (X) プレーリー ションプ
Name of Witness (optional)	Name of Witness (optional)
Signature of Witness (optional)	Signature of Witness (Optional)

Assignor Name WEN, CHIH-WEI	Address: 2F., NO.96, DONGXING RD., EAST DIST., TAINAN CITY 701, TAIWAN (R.O.C.)
Signature of Assignar (X) New Chil- Val	Date of Signature (X) 750 / 7/ft.
Name of Witness (aptional)	Name of Witness (optional)
Signature of Witness (optional)	Signature of Witness (Optional)

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PATENT REEL: 053359 FRAME: 0923

RECORDED: 07/30/2020