504511913 08/21/2017

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:NEW ASSIGNMENTNATURE OF CONVEYANCE:ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JIUN-YI WU	08/09/2017
CHEN-HUA YU	08/09/2017
CHUNG-SHI LIU	08/09/2017
CHIEN HSUN LEE	08/03/2017

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:	15681776

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER: 18506-1176

NAME OF SUBMITTER: ANTHONY KING

SIGNATURE: /Anthony King/

DATE SIGNED: 08/21/2017

Total Attachments: 2

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PATENT 504511913 REEL: 043345 FRAME: 0426

Your Ref.: P20160904US00

US ONLY

ASSIGNMENT

WHEREAS, I(we), <u>WU, JIUN-YI, YU, CHEN-HUA, LIU, CHUNG-SHI</u> and <u>LEE, CHIEN HSUN</u> whose post office address(es) appear(s) below, hereinafter referred to as ASSIGNOR, have invented certain new and useful invention entitled

SEMICONDUCTOR STRUCTURE AND MANUFACTURING METHOD THEREOF

(hereinafter referred to as the INVENTION) for which an	application for Un	ited States Letters	s Patent /Utility Patent
is executed on even date herewith unless at least one of	the following is ch	iecked:	-
☐ United States Design Patent was			
☐ executed on:			
🗖 filed on:	erial No.:		
established by PCT International Patent Application	ation No.:	filed:	designating the
United States of America			····
☐ issued on as U.S. Patent ?	Vo.:	***************************************	
WHEREAS, TAIWAN SEMICONDUCTOR MANaddress is NO.8, LI-HSIN RD. 6, HSINCHU hereinafter referred to as ASSIGNEE, is desirous of acquithe United States and its territorial possessions; NOW, THEREFORE, for good and valuable consideration and to said Invention and application throughout the Patent granted on any division, continuation, continuation terms for which the same may be granted, including all ASSIGNOR further covenants that no assignments,	NUFACTURING SCIENCE PAR iring the entire right deration, receipt of er unto said ASSIGN to United States of on-in-part and reiss priority rights unde	G COMPANY INCHUE The title and interest which is hereby NEE, the entire right America, includence of said applicate any Internations	J. TAIWAN, R.O.C. est in and to the same in acknowledged, I (we) ght, title, and interest in ling any and all Letters ation for the full term of all Convention.
or entered into which would conflict with this Assignme	nt;		
ALSO, ASSIGNOR hereby agrees to execute any doc filing, prosecution and maintenance of said application said INVENTION, including additional documents that in said INVENTION, all without further consideration. A ASSIGNEE'S expense, to identify and communicate to A concerning the INVENTION that are within ASSIGNOR'S a testimony on behalf of ASSIGNEE that lawfully may maintenance, litigation and defense of any patent applies that the said instrument. ASSIGNOR'S obligations under this instrument. ASSIGNOR'S obligations under this instrument.	or any other pater may be required to SSIGNOR also agre SSIGNEE at ASSIGN cossession or contro be required of As- plication or patent strument shall ex	nt application(s) is affirm the rights affirm the rights ses, without furth IEE'S request doct ol, and to provide SSIGNOR in respectivence of the ASSIGNOR in ASSIGNOR tend to ASSIGNOR in the compassed with the ASSIGNOR in the compassion of the compa	in the United States for of ASSIGNEE in and to er consideration and a uments and information a further assurances and ect of the prosecution /ithin the terms of this IOR'S heirs, executors
ALSO, ASSIGNOR hereby authorizes and requests t and all Letters Patent referred to above to ASSIGNEE, as the same, for ASSIGNEE'S sole use and behoof; and for t successors, to the full end of the term for which such same would have been held by ASSIGNOR had this assign	the ASSIGNEE of the use and behoof Letters Patent may	he entire right, tit of ASSIGNEE'S le be granted, as fi	le and interest in and to
Assignor Name	Address	**************************************	
WU, JIUN-YI	NO.9, LN. 5 CITY, TAOY (R.O.C.)	77, PUZHONO UAN COUNI	G RD., ZHONGLI TY 320, TAIWAN
Signature of Assignor Jiun Vi, Wa	Date of Signature (X)	8/9/20	017
Name of Witness (optional)	Name of Witness (o	ptional)	***************************************
Signature of Witness (optional)	Signature of Witnes	rs (Optional)	NAME OF THE PROPERTY OF THE PR

~1-

PATENT REEL: 043345 FRAME: 0427

Assignor Name YU, CHEN-HUA	Address NO. 3, 38 WATERFRONT ROAD 2, HSINCHU CITY, TAIWAN (R.O.C.)
Signature of Assignor (X)	Date of Signature 8/9/1, 7 (X)
Name of Witness (obtional)	Name of Witness (optional)
Signature of Witness (optional)	Signature of Witness (Optional)

Assignor Name LIU, CHUNG-SHI	Address 4F, NO. 178, GUANXIN EAST RD., HSINCHU CITY, TAIWAN (R.O.C.)
Signature of Agrignor (X) Juny Shi Liu	Date of Signature (X) 8/9/10/7
Name of Witness (optipnal) Signature of Witness (optional)	Name of Witness (optional) Signature of Witness (Optional)

Assignor Name LEE, CHIEN HSUN	Address 53, FU-RONG ST, CHU-TUNG TOWN, HSIN-CHU COUNTY, TAIWAN (R.O.C.)
Signature of Assignor (X)	Date of Signature (X) 8/3/1
Name of Witness (optional)	Name of Witness (optional)
Signature of Witness (optional)	Signature of Witness (Optional)