504820218 03/15/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4866953

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Chia-Liang Liao	03/14/2018
Feng-Yi Chang	03/14/2018
Fu-Che Lee	03/14/2018
Chieh-Te Chen	03/14/2018
Yi-Wang Zhan	03/14/2018

RECEIVING PARTY DATA

Name:	UNITED MICROELECTRONICS CORP.
Street Address:	No.3, Li-Hsin Road 2, Science-Based Industrial Park
City:	Hsin-Chu City
State/Country:	TAIWAN
Name:	FUJIAN JINHUA INTEGRATED CIRCUIT CO., LTD.
Street Address:	NO.88, LIANHUA AVENUE, INTEGRATED CIRCUIT SCIENCE PARK, JINJIANG CITY
City:	QUANZHOU CITY, FUJIAN PROVINCE
State/Country:	CHINA

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15920468

CORRESPONDENCE DATA

Fax Number: (703)997-4517

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: 3027291562

Email: Patent.admin.uspto.cr@naipo.com

Correspondent Name: WINSTON HSU

Address Line 1: 5F., NO.389, FUHE RD., YONGHE DIST.,

Address Line 4: NEW TAIPEI CITY, TAIWAN

ATTORNEY DOCKET NUMBER:	NAUP2993USA
NAME OF SUBMITTER:	SIBYL YU
SIGNATURE:	/SIBYL YU/

PATENT 504820218 REEL: 045215 FRAME: 0469

DATE SIGNED:	03/15/2018
Total Attachments: 10	
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PATENT REEL: 045215 FRAME: 0470

Title of Invention:

SEMICONDUCTOR DEVICE AND METHOD FOR FABRICATING THE SAME

As the below named inventor, I here This declaration is directed to:	by decla	are that:			
☐ The attached application, or					
United States application nu	mber	15/920,468	filed o	n <u>03/14/2018</u>	_, or
☐ PCT international application	n numl	oer	filed	i on	
The above-identified application was	made (or authorized to be ma	de by me.		
I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.					
I hereby acknowledge that any willful under18 U.S.C. 1001 by fine or impri	false s sonmer	tatement made in this nt of not more than five	declaration e (5) years, o	is punishable or both.	
	UNITE CORP	ED MICROELECTR	ONICS	having a postal ad	ddress of
No.3, Li-Hsin Road 2, Science	-Base	d Industrial Park, I	- - - - - - - - - - - - - - - - - - -	City 300, Taiwa	ın, R.O.C.
(referred to as "ASSIGNEE"below) to acknowledged, andfor other good an	l of the	e sum of One Dollar (\$ ble consideration.	1.00), the re	eceipt of which is t	nereby
	Fujian Co., L	ı Jinhua Integrated td.	l Circuit	having a postal ad	ddress of
No.88, Lianhua Avenue, Integr Fujian Province 362200, P.R.C	rated (Circuit Science Pa	rk, Jinjian	g City, Quanzh	ou City,
(referred to as "ASSIGNEE"below) to acknowledged, andfor other good an	I of the	sum of One Dollar (\$ ble consideration.	1.00), the re	eceipt of which is h	nereby
I hereby sell, assign and transfer to A the entire right, title and interest in an invention as above-identified application or substitutes, or extensions thereof, an	id to any ion and any coi	y and all improvement , in and to, all Letters I ntinuations, continuatio	s which are Patent to be on-in-part. di	disclosed in the obtained for said ivisions, renewals	
I hereby covenant that no assignmen entered into which would conflict with	t, sale, this as	agreement or encumb signment;	rance has b	een or will be mad	e or
I further covenant that ASSIGNEE wi and documents relating to said inven- known and accessible to I and will tes related thereto and will promptly exec	tion and stify as t	I said Letters Patent a to the same in anv inte	nd legal equ erference, lit	ivalents as may be	a

Page 1 of 10

representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the proposes thereof.

IN WITNESS WHEREOF, I have hereunto set hand and seal this MAR 1 4 2018 (Date of signing)

Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. Use this form for <u>each additional inventor</u>.

LEGAL NA	ME OF INVENTO	R(ASSIGNOR)			
Inventor:	Chia-Liang L	iao	Date:	MAR 1 4 2018	
Signature:		CHIA-LIANG	LZAO		

Page 2 of 10

NPO#NAU-P2993-USA:0 CUST#UMCF-2016-0160

Title of Invention:

SEMICONDUCTOR DEVICE AND METHOD FOR FABRICATING THE SAME

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☑ United States application nu	umber	15/920,468	filed	on <u>03/14/2018</u>	, or
☐ PCT international applicatio	n num	ber	file	ed on	
The above-identified application was	s made	or authorized to	be made by me.	-	
I believe that I am the original invent application.	or or ar	n original joint inv	entor of a claim	ed invention in the	
I hereby acknowledge that any willfu under18 U.S.C. 1001 by fine or impr	ıl false s isonme	statement made nt of not more th	in this declaratio an five (5) years	n is punishable , or both.	
In consideration of the payment by	UNIT	ED MICROEL	ECTRONICS	having a postal a	address of
No.3, Li-Hsin Road 2, Science	-Base	d Industrial F	ark, Hsin-Chi	u City 300, Taiw	an, R.O.C.
(referred to as "ASSIGNEE"below) to acknowledged, andfor other good ar	o I of the	e sum of One Do able consideratio	ollar (\$ 1.00), the n.	receipt of which is	hereby
In consideration of the payment by	Fujiaı Co., L		grated Circuit	having a postal a	address of
No.88, Lianhua Avenue, Integ Fujian Province 362200, P.R.C	rated	Circuit Scien	ce Park, Jinjia	ang City, Quanz	hou City,
(referred to as "ASSIGNEE"below) to acknowledged, andfor other good ar	o I of the	e sum of One Do able consideratio	ollar (\$ 1.00), the n.	receipt of which is	hereby
I hereby sell, assign and transfer to a the entire right, title and interest in an invention as above-identified applica invention by the above application of substitutes, or extensions thereof, ar	nd to ar ition and r any co	ny and all improv d, in and to, all L entinuations, con	ements which ar etters Patent to I tinuation-in-part.	e disclosed in the be obtained for said divisions, renewals	i s
I hereby covenant that no assignmer entered into which would conflict with	nt, sale, n this as	agreement or e ssignment;	ncumbrance has	been or will be ma	de or
I further covenant that ASSIGNEE w and documents relating to said inver known and accessible to I and will te related thereto and will promptly exe	ntion and stify as	d said Letters Pa to the same in a	itent and legal e inv interference.	quivalents as may l litigation proceedin	n e

Page 3 of 10

NPO#NAU-P2993-USA:0 CUST#UMCF-2016-0160

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Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. Use this form for <u>each additional inventor</u>.

LEGAL NAI	ME OF INVENTOR(ASSIGNOR)			
Inventor:	Feng-Yi Chang	. Date:	MAR 1 4 2018	
Signature:	Feng-Y: Chang			

Page 4 of 10

NPO#NAU-P2993-USA:0 CUST#UMCF-2016-0160

Title of Invention:

SEMICONDUCTOR DEVICE AND METHOD FOR FABRICATING THE SAME

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The above-identified application was	made	or authorized to	be made b	y me.		
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In consideration of the payment by	UNITE		ECTRON	ICS h	aving a postal	address of
No.3, Li-Hsin Road 2, Science	-Base	d Industrial	Park, Hsir	ո-Chu C	ity 300, Taiv	van, R.O.0
(referred to as "ASSIGNEE"below) to acknowledged, andfor other good an	l of the	e sum of One D ble considerati	ollar (\$ 1.00 on.	0), the red	ceipt of which is	s hereby
In consideration of the payment by	Fujiar Co., L	n Jinhua Inte .td.	grated Ci	rcuit h	aving a postal	address of
No.88, Lianhua Avenue, Integ Fujian Province 362200, P.R.C	rated (Circuit Scier	ice Park,	Jinjiang	City, Quanz	zhou City
(referred to as "ASSIGNEE"below) to acknowledged, andfor other good an	l of the	e sum of One D ble consideration	ollar (\$ 1.00 on.	D), the red	ceipt of which is	s hereby
I hereby sell, assign and transfer to A the entire right, title and interest in ar invention as above-identified applica invention by the above application or substitutes, or extensions thereof, ar	nd to an tion and any co	y and all impro d, in and to, all l intinuations, col	vements wh Letters Pate ntinuation-in	nich are d ent to be d n-part, div	isclosed in the obtained for sai	d Is
I hereby covenant that no assignmer entered into which would conflict with	it, sale, i this as	agreement or essignment;	encumbranc	e has be	en or will be m	ade or
I further covenant that ASSIGNEE w and documents relating to said inven known and accessible to I and will te related thereto and will promptly exec	tion and stify as	d said Letters P to the same in	atent and le any interfer	egal equivence. Iitid	alents as mav	be

Page 5 of 10

NPO#NAU-P2993-USA:0 CUST#UMCF-2016-0160

representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the proposes thereof. IN WITNESS WHEREOF, I have hereunto set hand and seal this MAR 1.4.2016 (Date of signing)

Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. Use this form for each additional inventor.

LEGAL NA	ME OF INVENTOR(ASSIGNOR)			
Inventor:	Fu-Che Lee	Date:	MAR 1 4 2018	
Signature:	Fu-Che Lee			

Page 6 of 10

NPO#NAU-P2993-USA:0 CUST#UMCF-2016-0160

Title of Invention:

SEMICONDUCTOR DEVICE AND METHOD FOR FABRICATING THE SAME

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☐ PCT international application	n numl	ber	filed	on		
The above-identified application was made or authorized to be made by me.						
I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.						
I hereby acknowledge that any willful false statement made in this declaration is punishable under18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.						
	UNITED MICROELECTRONICS having a postal address of CORP.					
No.3, Li-Hsin Road 2, Science	-Base	d Industrial Park, Hs	in-Chu (City 300, Taiwan	, R.O.C.	
(referred to as "ASSIGNEE"below) to I of the sum of One Dollar (\$ 1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration.						
	Fujian Co., L	n Jinhua Integrated C td.	Circuit	having a postal add	ress of	
No.88, Lianhua Avenue, Integrated Circuit Science Park, Jinjiang City, Quanzhou City, Fujian Province 362200, P.R.C.						
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I hereby sell, assign and transfer to ASSIGNEE and the successors and assignees of the ASSIGNEE the entire right, title and interest in and to any and all improvements which are disclosed in the invention as above-identified application and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuations, continuation-in-part, divisions, renewals, substitutes, or extensions thereof, and as to Letters Patent any reissue or re-examination thereof.						
I hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment;						
I further covenant that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to I and will testify as to the same in any interference, litigation proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal						

Page 7 of 10

NPO#NAU-P2993-USA:0 CUST#UMCF-2016-0160

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LEGAL NAME OF INVENTOR(ASSIGNOR)							
Inventor:	Chieh-Te Chen	Date:	MAR 1 4 2018				
Signature:	_ chieh-Te (Chen					

Page 8 of 10

NPO#NAU-P2993-USA:0 CUST#UMCF-2016-0160

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LEGAL NAME OF INVENTOR(ASSIGNOR)

Inventor: Yi-Wang Zhan

Date:

MAR 1 4 2018

Signature:

Page 10 of 10

NPO#NAU-P2993-USA:0 CUST#UMCF-2016-0160 F#NPO-P0002E-US1201 DSB0-106U036501

PATENT REEL: 045215 FRAME: 0480

RECORDED: 03/15/2018