504655638 11/23/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4702360

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Wen-Chin Lin	11/20/2017
Jhih-Yuan Chen	11/20/2017
Syue-Ren Wu	11/20/2017
Meng-Hsun Wu	11/20/2017

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:	15821762

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.

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ATTORNEY DOCKET NUMBER:	NAUP3170USA
NAME OF SUBMITTER:	KATE YEH
SIGNATURE:	/KATE YEH/
DATE SIGNED:	11/23/2017

PATENT 504655638 REEL: 044203 FRAME: 0364

Total Attachments: 8	
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PATENT REEL: 044203 FRAME: 0365

COMBINE DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT

Title of Invention:

SEMICONDUCTOR DEVICE AND MANUFACTURING METHOD THEREOF

As the below named inventor, I here This declaration is directed to:	by declare that:			
☑ The attached application, or				
☐ United States application nu	mber	filed on, o		or
☐ PCT international application	number	file	d on	
The above-identified application was	made or authorized to be made b	y me.		
I believe that I am the original invent application.	or or an original joint inventor of a	claimed	l invention in the	
I hereby acknowledge that any willfu under18 U.S.C. 1001 by fine or impr				
In consideration of the payment by	UNITED MICROELECTRON CORP.	IICS	having a postal add	ress of
No.3, Li-Hsin Road 2, Science	-Based Industrial Park, Hsi	n-Chu	City 300, Taiwan	, R.O.C.
(referred to as "ASSIGNEE"below) to acknowledged, andfor other good ar		0) , the r	eceipt of which is he	reby
In consideration of the payment by	Fujian Jinhua Integrated Ci	ircuit	having a postal add	ress of
No.88, Lianhua Avenue, Integ Fujian Province 362200, P.R.0	rated Circuit Science Park, C.	Jinjiaı	ng City, Quanzho	u City,
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I hereby sell, assign and transfer to a the entire right, title and interest in a invention as above-identified applica- invention by the above application o substitutes, or extensions thereof, an	nd to any and all improvements wi ition and, in and to, all Letters Pate r any continuations, continuation-i	hich are ent to be n-part, o	disclosed in the e obtained for said livisions, renewals,	EE
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NPO#NAU-P3170-USA:0 CUST#UMCF-2017-0129

Wen-chin Lin				
Wen-Chin Lin	Date:	NOV	2 0 2017	
ME OF INVENTOR(ASSIGNOR)				
ssue and enforce said application, said inv s thereof which may be necessary or desi	/ention and said rable to carry oເ	l Letters l ut the pro	Patent and poses there	said of.
5 5 5	ssue and enforce said application, said investment of the state of which may be necessary or desired which may be necessary or desired with the set of the	ssue and enforce said application, said invention and said thereof which may be necessary or desirable to carry of SS WHEREOF, I have hereunto set hand and seal this opplication data sheet (PTO/SB/14 or equivalent), including native, must accompany this form. Use this form for each a ME OF INVENTOR(ASSIGNOR) Wen-Chin Lin Date:	ssue and enforce said application, said invention and said Letters is thereof which may be necessary or desirable to carry out the pross WHEREOF, I have hereunto set hand and seal this NOV opplication data sheet (PTO/SB/14 or equivalent), including naming natity, must accompany this form. Use this form for each additional ME OF INVENTOR(ASSIGNOR) Wen-Chin Lin Date: NOV	pplication data sheet (PTO/SB/14 or equivalent), including naming the entire ntity, must accompany this form. Use this form for each additional inventor. ME OF INVENTOR(ASSIGNOR) Wen-Chin Lin Date: NOV 2 0 2017

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NPO#NAU-P3170-USA:0 CUST#UMCF-2017-0129

COMBINE DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT

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The above-identified application was	made or authorized to be made to	oy me.			
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I hereby acknowledge that any willfu under18 U.S.C. 1001 by fine or impr					
In consideration of the payment by	UNITED MICROELECTRON CORP.	IICS	having a postal ad	dress of	
No.3, Li-Hsin Road 2, Science	-Based Industrial Park, Hsi	n-Chu	City 300, Taiwa	n, R.O.C.	
(referred to as "ASSIGNEE"below) to acknowledged, andfor other good an		0), the i	receipt of which is h	ereby	
In consideration of the payment by	Fujian Jinhua Integrated C Co., Ltd.	ircuit	having a postal ad	dress of	
No.88, Lianhua Avenue, Integ Fujian Province 362200, P.R.O		Jinjiaı	ng City, Quanzh	ou City,	
(referred to as "ASSIGNEE"below) to acknowledged, andfor other good an	o I of the sum of One Dollar (\$ 1.0 od valuable consideration.	0), the i	receipt of which is h	ereby	
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 entered into which would conflict with		ce has	been or will be mad	e or	
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					

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maintain, is	tives any and all papers, instrument sue and enforce said application, s thereof which may be necessary o	said invention and sai	d Letters Patent and	said
IN WITNES	SS WHEREOF, I have hereunto set	hand and seal this	NOV 2 0 2017	(Date of signing)
	oplication data sheet (PTO/SB/14 on tity, must accompany this form. Us			
LEGAL NA	ME OF INVENTOR(ASSIGNOR) Jhih-Yuan Chen	Date:	2001 O O 2017	
inventor.	Jilli-i dali Glieli	——————————————————————————————————————	NOV 2 0 2017	description of the second of
Signature:	_ Jhih - Tuan	Chen		Mary physical and desired transpor

Page 4 of 8

COMBINE DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT

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☐ United States application number			on,	or
□ PCT international application number			ed on	
The above-identified application was made or authorized to be made by me.				
I believe that I am the original inventorapplication.	or or an original joint	inventor of a claime	ed invention in the	
I hereby acknowledge that any willful under18 U.S.C. 1001 by fine or impri				
In consideration of the payment by	UNITED MICRO CORP.	ELECTRONICS	having a postal add	ress of
No.3, Li-Hsin Road 2, Science	-Based Industria	al Park, Hsin-Chu	ı City 300, Taiwan,	R.O.C.
(referred to as "ASSIGNEE"below) to acknowledged, andfor other good an			receipt of which is her	eby
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(referred to as "ASSIGNEE"below) to acknowledged, andfor other good an	ol of the sum of One d valuable consider	e Dollar (\$ 1.00), the ation.	receipt of which is her	reby
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 any and all imp tion and, in and to, a any continuations,	provements which ar all Letters Patent to I continuation-in-part,	re disclosed in the be obtained for said divisions, renewals,	EE
I hereby covenant that no assignment entered into which would conflict with		or encumbrance has	been or will be made	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	ition and said Letter stify as to the same	s Patent and legal e in any interference,	quivalents as may be litigation proceeding	ts

Page 5 of 8

F#NPO-P0002E-US1201

PATENT REEL: 044203 FRAME: 0370

maintain, is equivalents	tives any and all papers, instruments or amidation isue and enforce said application, said invention Ithereof which may be necessary or desirable IS WHEREOF, I have hereunto set hand and it	on and sai to carry o	d Letter ut the p	s Pate	nt and e s there	said	3)
Note: An ar inventive er	oplication data sheet (PTO/SB/14 or equivalenntity, must accompany this form. Use this form	t), includir for <u>each</u>	ng namil addition	ng the al inve	entire entor.		
LEGAL NA	ME OF INVENTOR(ASSIGNOR)						
Inventor:	Syue-Ren Wu	Date:	NO	V 2	0 2017	7	
Signature:	Syae-Ren Wu						

COMBINE DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT

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No.3, Li-Hsin Road 2, Science-Based Industrial Park, Hsin-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, andfor other good and valuable consideration.				
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I hereby sell, assign and transfer to the entire right, title and interest in a invention as above-identified applica- invention by the above application o substitutes, or extensions thereof, a	nd to any and all improvements w ation and, in and to, all Letters Pat r any continuations, continuation-	hich are tent to be in-part, d	disclosed in the obtained for said ivisions, renewals,	ĒĒ
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RECORDED: 11/23/2017

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