PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

SUBMISSION TYPE: CORRECTIVE ASSIGNMENT **NATURE OF CONVEYANCE:** Corrective Assignment to correct the NAME OF THE 7TH ASSIGNOR FROM I-AN HUANG TO "YI-AN HUANG" previously recorded on Reel 041716 Frame 0754. Assignor(s) hereby confirms the ASSIGNMENT OF ASSIGNORS INTEREST. **RESUBMIT DOCUMENT ID:** 504484436

CONVEYING PARTY DATA

Name	Execution Date	
PIN-HONG CHEN	03/17/2017	
TSUN-MIN CHENG	03/17/2017	
CHIH-CHIEH TSAI	03/17/2017	
TZU-CHIEH CHEN	03/17/2017	
KAI-JIUN CHANG	03/17/2017	
CHIA-CHEN WU	03/17/2017	
YI-AN HUANG	07/13/2017	
YI-WEI CHEN	03/17/2017	

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:	6TH FLOOR, PODIUM OF ELECTRIC POWER COMPANY BUILDING, MEILING STREET, JINJIANG CITY
City:	QUANZHOU CITY,FUJIAN PROVINCE
State/Country:	CHINA

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	15468084	

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

PATENT

EPAS ID: PAT4578286

REEL: 043476 FRAME: 0281 504531580

Correspondent Name: WINSTON HSU

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

Address Line 4: NEW TAIPEI CITY, TAIWAN

ATTORNEY DOCKET NUMBER:	NAUP2959USA
NAME OF SUBMITTER:	SIBYL YU
SIGNATURE:	/SIBYL YU/
DATE SIGNED:	09/04/2017

Total Attachments: 19 source=GP076#page1.tif source=GP076#page2.tif source=GP076#page3.tif source=NP005#page1.tif source=NP005#page2.tif source=NP005#page3.tif source=NP005#page4.tif source=NP005#page5.tif source=NP005#page6.tif source=NP005#page7.tif source=NP005#page8.tif source=NP005#page9.tif source=NP005#page10.tif source=NP005#page11.tif source=NP005#page12.tif source=NP005#page13.tif source=NP005#page14.tif source=NP005#page15.tif source=NP005#page16.tif

> PATENT REEL: 043476 FRAME: 0282

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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

SUBMISSION TYPE: NEW ASSIGNMENT

NATURE OF CONVEYANCE: ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Pin-Hong Chen	03/17/2017
Tsun-Min Cheng	03/17/2017
Chih-Chieh Tsai	03/17/2017
Tzu-Chieh Chen	03/17/2017
	03/17/2017
	03/17/2017
I-An Huang	03/17/2017
Yi-Wei Chen	03/17/2017

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PATENT REEL: 043476 FRAME: 0283

RECEIVING PARTY DATA

Name:	UNITED MICROELECTRONICS CORP.
Street Address:	No.3, Li-Hsin Road 2, Science-Based Industrial Park
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State/Country:	TAIWAN

Name:	FUJIAN JINHUA INTEGRATED CIRCUIT CO., LTD.
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Application Number:	15468084

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Fax Number: (703)997-4517 Phone: 3027291562

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

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Correspondent Name: WINSTON HSU

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

Address Line 4: NEW TAIPEI CITY, TAIWAN

ATTORNEY DOCKET NUMBER:	NAUP2959USA	aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
NAME OF SUBMITTER:	SIBYL YU	annonne
Signature:	/SIBYL YU/	ennessennes
Date:	03/23/2017	commons

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03/23/2017

Title of Invention: SEMICONDUCTOR DEVICE AND METHOD FOR FABRICATING THE SAME

As the below named inventor, I hereb This declaration is directed to:	by declare that:				
☑ The attached application, or					
☐ United States application nur	mber	filed o	on	, or	
□ PCT international application number		file	filed 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 in	ventor of a claime	d invention in the		
I hereby acknowledge that any willful under18 U.S.C. 1001 by fine or impri	false statement made sonment of not more t	in this declaration han five (5) years,	n is punishable or both.		
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No.3, Li-Hsin Road 2, Science	-Based Industrial	Park, Hsin-Chu	ı City 300, Taiwar	ı, R.O.C.	
(referred to as "ASSIGNEE"below) to acknowledged, andfor other good ar	id valuable considerati	on.			
In consideration of the payment by	Fujian Jinhua Inte Co., Ltd.	grated Circuit	having a postal add	dress of	
6th floor, Podium of electric p Quanzhou City, Fujian provin	oower company bu ce 362200, P.R.C.	ilding, Meiling	street, Jinjiang c	ity,	
(referred to as "ASSIGNEE"below) to acknowledged, andfor other good are	o I of the sum of One I nd valuable considerati	Dollar (\$ 1.00), the on.	receipt of which is he	ereby	
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 impro ation and, in and to, all r any continuations, co	ovements which a Letters Patent to ontinuation-in-part	re disclosed in the be obtained for said , divisions, renewals,		
I hereby covenant that no assignme entered into which would conflict with	nt, sale, agreement or th this assignment;	encumbrance has	s been or will be made	e or	
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Page 1 of 16

NPO#NAU-P2959-USA:0 CUST#UMCF-2016-0163

Docket No NAU	JP2959USA
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representatives any and all papers, instruments or affidavits required maintain, issue and enforce said application, said invention and said equivalents thereof which may be necessary or desirable to carry ou IN WINTNESS WHEREOF, I have hereunto set hand and seal this	Letters Pater	nt and sa	aid f. (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 NAME OF INVENTOR(ASSIGNOR)

Inventor: Pin-Hong Chen

Date: MAR 1 7 2017

Signature: Pin-Hong Chen

Page 2 of 16

NPO#NAU-P2959-USA:0 CUST#UMCF-2016-0163

Title of Invention: SEMICONDUCTOR DEVICE AND METHOD FOR FABRICATING THE SAME

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☑ The attached application, or				
☐ United States application nu	mber	filed o	n, c	or
☐ PCT international application	n number	file	d on	
The above-identified application was	made or authoriz	zed to be made by me.		
I believe that I am the original invent application.	or or an original j	oint inventor of a claime	d invention in the	
I hereby acknowledge that any willfu under18 U.S.C. 1001 by fine or impr				
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No.3, Li-Hsin Road 2, Science	-Based Indus	trial Park, Hsin-Chu	City 300, Taiwan, F	R.O.C.
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6th floor, Podium of electric p Quanzhou City, Fujian provin			- street, Jinjiang city	,
(referred to as "ASSIGNEE"below) to acknowledged, andfor other good ar			receipt of which is here	by
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I hereby covenant that no assignme entered into which would conflict wit			been or will be made or	
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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 WINTNESS WHEREOF, I have hereunto set hand and seal this MAR 1 7 2017 (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 NAME OF INVENTOR(ASSIGNOR)

Inventor:

Tsun-Min Cheng

Date:

MAR 1 7 2017

Signature:

Page 4 of 16

NPO#NAU-P2959-USA:0 CUST#UMCF-2016-0163

Title of Invention: SEMICONDUCTOR DEVICE AND METHOD FOR FABRICATING THE SAME

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☐ United States application nu	mber	filed o	on	_, or
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The above-identified application was	made or authorized to	be made by me.		
I believe that I am the original invent application.	or or an original joint in	nventor of a claime	ed invention in the	
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In consideration of the payment by	UNITED MICROEI	LECTRONICS	having a postal ad	ldress of
No.3, Li-Hsin Road 2, Science	-Based Industrial	Park, Hsin-Chu	ı City 300, Taiwa	n, R.O.C.
(referred to as "ASSIGNEE"below) to acknowledged, andfor other good an	id valuable considerat	on.	·	•
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6th floor, Podium of electric p Quanzhou City, Fujian provin		uilding, Meiling	street, Jinjiang	city,
(referred to as "ASSIGNEE"below) to acknowledged, andfor other good ar			receipt of which is h	ereby
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I hereby covenant that no assignme entered into which would conflict wit		encumbrance has	been or will be mad	le or
I further covenant that ASSIGNEE wand documents relating to said inverse known and accessible to I and will to related thereto and will promptly exercise.	ntion and said Letters estify as to the same in	Patent and legal e any interference,	quivalents as may be litigation proceeding	е

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maintain, i equivalent	tilves any and all papers, instrussue and enforce said applicat s thereof which may be necess ESS WHEREOF, I have hereu	ion, said invention sary or desirable	on and said to carry ou	Letters Pate	ent and sa es thereo	aid f. _(Date of signing)
Note: An a inventive e	pplication data sheet (PTO/SB ntity, must accompany this for	/14 or equivalen m. Use this form	it), including for <u>each a</u>	naming the	e entire entor	
					, •	
LEGAL NA	ME OF INVENTOR(ASSIGNO	PR)				
Inventor:	Chih-Chieh Tsai	•	Date:	MAR 1	7 2017	
Signature:	Chih-Chieh	Tsai				

Page 6 of 16

Title of Invention: SEMICONDUCTOR DEVICE AND METHOD FOR FABRICATING THE SAME

As the below named inventor, I herel This declaration is directed to:	by declare that:				
☑ The attached application, or					
☐ United States application nu	mber	filed on	, or		
☐ PCT international application	number	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 willfu under18 U.S.C. 1001 by fine or impri					
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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 v ition and, in and to, all Letters Pa r any continuations, continuation-	which are disclosed in the tent to be obtained for said in-part, divisions, renewals,			
I hereby covenant that no assignmentered into which would conflict wit		nce has been or will be made	e or		
I further covenant that ASSIGNEE wand documents relating to said inverse known and accessible to I and will be related thereto and will promptly exercise.	ntion and said Letters Patent and estify as to the same in any interfe	legal equivalents as may be erence, litigation proceeding)		

Page 7 of 16

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maintain, is equivalents	tives any and all papers, instruments or affices and enforce said application, said invest thereof which may be necessary or desirates WHEREOF, I have hereunto set hand a	ntion and sai ble to carry o	d Letters Patent a ut the proposes th	nd said ereof.
Note: An ap inventive e	oplication data sheet (PTO/SB/14 or equivantity, must accompany this form. Use this fo	lent), includir rm for <u>each</u> :	ng naming the enti additional inventor	re _
LEGAL NA	ME OF INVENTOR(ASSIGNOR)			
Inventor:	Tzu-Chieh Chen	Date:	MAR 1 7 20	17
Signature:	Tzu-Chieh Chen			

Page 8 of 16

NPO#NAU-P2959-USA:0 CUST#UMCF-2016-0163

Title of Invention: SEMICONDUCTOR DEVICE AND METHOD FOR FABRICATING THE SAME

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6th floor, Podium of electric p Quanzhou City, Fujian provin	oower company l ce 362200, P.R.C	ouilding, Meiling ;.	street, Jinjiang c	ity,
(referred to as "ASSIGNEE"below) to acknowledged, andfor other good an	o I of the sum of One nd valuable consider	Dollar (\$ 1.00), the ation.	receipt of which is he	ereby
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inventive entity, must accompany this form. Use this form for each additional inventor.

LEGAL NAME OF INVENTOR(ASSIGNOR)

Inventor:

Kai-Jiun Chang

Date:

MAR 1 7 2017

Signature:

Page 10 of 16

F#NPO-P0002E-US1201

Title of Invention: SEMICONDUCTOR DEVICE AND METHOD FOR FABRICATING THE SAME

As the below named inventor, I here This declaration is directed to:	by declare that:				
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☐ United States application nu	mber	filed o	n	, or	
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No.3, Li-Hsin Road 2, Science	-Based Industrial	Park, Hsin-Chu	City 300, Tai	wan, R.O.C.	
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I hereby covenant that no assignment entered into which would conflict with	nt, sale, agreement or h this assignment;	encumbrance has	been or will be n	nade or	
I further covenant that ASSIGNEE wand documents relating to said invertence known and accessible to Land will te	ntion and said Letters	Patent and legal eq	uivalents as may	y be	

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	tives any and all papers, instruments is sue and enforce said application, said					aid
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IN WINTNE	ESS WHEREOF, I have hereunto set	hand and	seal this	MAR 1	7 2017	(Date of signing)
	oplication data sheet (PTO/SB/14 or entity, must accompany this form. Use					
LEGAL NA	ME OF INVENTOR(ASSIGNOR)					
Inventor:	Chia-Chen Wu		Date:	MAR 1	7 2017	
Signature:	Chia - Chen	Wu	_			

Page 12 of 16

NPO#NAU-P2959-USA:0 CUST#UMCF-2016-0163 F#NPO-P0002E-US1201 DSB0-105U037144

PATENT REEL: 043476 FRAME: 0297

Title of Invention: SEMICONDUCTOR DEVICE AND METHOD FOR FABRICATING THE SAME

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	l on,	or	
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The above-identified application was	made or authorize	ed to be made by me	f•		
I believe that I am the original inventapplication.	or or an original jo	int inventor of a claim	ned invention in the		
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I hereby covenant that no assignment entered into which would conflict with	nt, sale, agreemen n this assignment;	t or encumbrance ha	s 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	ntion and said Lette stify as to the sam	ers Patent and legal one in any interference	equivalents as may be	ts	

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F#NPO-P0002E-US1201 DSB0-105U037144 PATENT

REEL: 043476 FRAME: 0298

representatives any and all papers, instruments or a maintain, issue and enforce said application, said in equivalents thereof which may be necessary or desi IN WINTNESS WHEREOF, I have hereunto set han	vention and said irable to carry ou	Letters Patent	and said hereof.	ning)
Note: An application data sheet (PTO/SB/14 or equinventive entity, must accompany this form. Use this				
	Yi-An Hu	viole proprie	13 2019	
LEGAL NAME OF INVENTOR(ASSIGNOR) Inventor: —I-An Huang Yi-An Huang	Date:	MAR 1 7		
Signature: I-An Huong				

Page 14 of 16

NPO#NAU-P2959-USA:0 CUST#UMCF-2016-0163

Title of Invention: SEMICONDUCTOR DEVICE AND METHOD FOR FABRICATING THE SAME

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6th floor, Podium of electric p Quanzhou City, Fujian province	ower company building, M ce 362200, P.R.C.	eiling street, Jinjiang city	′ ,		
(referred to as "ASSIGNEE"below) to acknowledged, andfor other good an		00), the receipt of which is herel	by		
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 any and all improvements w tion and, in and to, all Letters Pat rany continuations, continuation-	rhich are disclosed in the ent to be obtained for said in-part, divisions, renewals,	E		
I hereby covenant that no assignmer entered into which would conflict with		ice has been or will be made or	r		
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 exer-	ntion and said Letters Patent and estify as to the same in any interfe	legal equivalents as may be erence, litigation proceeding			

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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 each additional inventor.	
LEGAL NAME OF INVENTOR(ASSIGNOR)	
Inventor: Yi-Wei Chen Date: MAR 1 7 2017	
Signature: Yi-Wei Chen	

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