# 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
Chia-Lin Lu	07/22/2014
Chun-Lung Chen	07/22/2014
Kun-Yuan Liao	07/22/2014
Feng-Yi Chang	07/22/2014

### **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

### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	14510126

### CORRESPONDENCE DATA

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Address Line 4: MERRIFIELD, VIRGINIA 22116

ATTORNEY DOCKET NUMBER:	NAUP2325USA
NAME OF SUBMITTER:	SHELLEY KUO
SIGNATURE:	/SHELLEY KUO/
DATE SIGNED:	10/09/2014

### **Total Attachments: 8**

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PATENT

EPAS ID: PAT3058278

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### Title of Invention:

SEMICONDUCTOR DEVICE HAVING METAL GATE 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	file	d on	, or
□ PCT international application	number	1	filed on	
The above-identified application was	made or authoriz	ed to be made by m	e.	
I believe that I am the original inventapplication.	or or an original jo	int inventor of a clai	med invention in the	
I hereby acknowledge that any willfu under18 U.S.C. 1001 by fine or impri	I false statement r isonment of not m	nade in this declarat ore than five (5) yea	ion is punishable rs, or both.	
In consideration of the payment by	UNITED MICR CORP.	OELECTRONICS	having a postal ad	dress of
No.3, Li-Hsin Road 2, Science	-Based Indust	rial Park, Hsin-C	— hu City 300, Taiwa	n, R.O.C.
(referred to as "ASSIGNEE" below) to acknowledged, andfor other good an	ol of the sum of O d valuable consid	ne Dollar (\$ 1.00), theration.	ne receipt of which is h	ereby
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, and I hereby covenant that no assignment	nd to any and all ir tion and, in and to any continuations ad as to Letters Pa	nprovements which , all Letters Patent to s, continuation-in-pa tent any reissue or r	are disclosed in the obe obtained for said rt, divisions, renewals, re-examination thereof.	
entered into which would conflict with	this assignment;	t or original large in	as seen of will be made	. 01
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				
representatives any and all papers, in maintain, issue and enforce said app equivalents thereof which may be ne IN WINTNESS WHEREOF, I have he	lication, said inver cessary or desirat	ntion and said Letter ble to carry out the p	s Patent and said roposes thereof.	of signing)
Note: An application data sheet (PTC inventive entity, must accompany this	D/SB/14 or equival s form. Use this fo	ent), including nami rm for <u>each addition</u>	ng the entire al inventor.	

Page 1 of 8

NPO#NAU-P2325-USA:0 CUST#UMCD-2014-0331 F#NPO-P0002E-US1201 DSC0-103U006961

LEGAL NAM	ME OF INVENTOR(ASSIGNOR)			
Inventor:	Chia-Lin Lu	Date:	JUL 22 2014	
Signature:	Chia-Cin Lu			

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As the below named inventor, I here This declaration is directed to:	by declare that:	\$111 <b>6</b> 0.\$	nger Sir james Tu		
☑ The attached application, or					
☐ United States application nu	mber	filed	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 inventa application.	or <b>or an origi</b> nal joint ir	ventor of a claime	ed invention in the		
I hereby acknowledge that any willfu under18 U.S.C. 1001 by fine or impri	I false statement made sonment of not more t	e in this declaration than five (5) years	n is punishable , or both.		
In consideration of the payment by	UNITED MICROEL	ECTRONICS	having a postal a	ddress of	
No.3, Li-Hsin Road 2, Science	-Based Industrial	Park, Hsin-Chu	_ ı City 300, Taiwa	an, R.O.C.	
(referred to as "ASSIGNEE" below) to acknowledged, and for other good an 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 I hereby covenant that no assignment entered into which would conflict with	d valuable considerating ASSIGNEE and the sure of to any and all improsion and, in and to, all any continuations, cold as to Letters Patent at, sale, agreement or a this assignment;	on.  ccessors and assivements which ar Letters Patent to b ntinuation-in-part, any reissue or re-	gnees of the ASSIC e disclosed in the be obtained for said divisions, renewals examination thereo been or will be mad	SNEE , , of. de or	
I further covenant that ASSIGNEE wi and documents relating to said inven known and accessible to I and will te related thereto and will promptly exec	tion and said Letters F stifv as to the same in	Patent and legal ed any interference	quivalents as may b litigation proceeding	e	
representatives any and all papers, ir maintain, issue and enforce said app equivalents thereof which may be ned IN WINTNESS WHEREOF, I have he	lication, said invention cessary or desirable to	and said Letters I carry out the pro	Patent and said poses thereof.	e of signing)	
Note: An application data sheet (PTC inventive entity, must accompany this	0/SB/14 or equivalent), s form. Use this form fo	including naming or <u>each additional</u>	the entire inventor.		

Page 3 of 8

NPO#NAU-P2325-USA:0 CUST#UMCD-2014-0331

F#NPO-P0002E-US1201 DSC0-103U006961

LEGAL NAI	ME OF INVENTOR(ASSIGNOR)			
Inventor.	Chun-Lung Chen	Date:	JUL 22 2014	
Signature:	Your-lung hen		, the same of the	_

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F#NPO-P0002E-US1201 DSC0-103U006961

NPO#NAU-P2325-USA:0 CUST#UMCD-2014-0331

Andrews

# Title of Invention: SEMICONDUCTOR DEVICE HAVING METAL GATE AND MANUFACTURING **METHOD THEREOF**

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As the below named inventor, I here This declaration is directed to:	eby declare that:		
☑ The attached application, or			
☐ United States application nu	mber	filed on	, or
☐ PCT international application	n number	filed on	
The above-identified application was	s made or authorized to	be made by me.	
I believe that I am the original inventapplication.	tor or an original joint ir	nventor of a claimed invention in the	е
I hereby acknowledge that any willfu under18 U.S.C. 1001 by fine or impr	Il false statement made isonment of not more t	e in this declaration is punishable than five (5) years, or both.	
In consideration of the payment by	UNITED MICROEI	LECTRONICS having a posta	al address of
No.3, Li-Hsin Road 2, Science	e-Based Industrial	Park, Hsin-Chu City 300, Tai	wan, R.O.C.
(referred to as "ASSIGNEE"below) to acknowledged, andfor other good are	o I of the sum of One E nd valuable considerati	Pollar (\$ 1.00), the receipt of which on.	is hereby
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 of substitutes, or extensions thereof, an	nd to any and all impro ition and, in and to, all r any continuations, co	vements which are disclosed in the Letters Patent to be obtained for sa ntinuation-in-part, divisions, renewa	e aid als
I hereby covenant that no assignment entered into which would conflict with	nt, sale, agreement or on this assignment;	encumbrance has been or will be n	nade 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 Letters F stify as to the same in	Patent and legal equivalents as may any interference, litigation proceed	v he
representatives any and all papers, i maintain, issue and enforce said app equivalents thereof which may be no IN WINTNESS WHEREOF, I have h	olication, said invention cessarv or desirable to	and said Letters Patent and said carry out the proposes thereof.	eate of signing)
Note: An application data sheet (PTC inventive entity, must accompany thi	D/SB/14 or equivalent), s form. Use this form fo	including naming the entire or each additional inventor.	

Page 5 of 8 F#NPO-P0002E-US1201

**PATENT** 

DSC0-103U006961

LEGAL NAME OF INVENTOR(ASSIGNOR)					
Inventor:	Kun-Yuan Liao	Date:	JUL	22 2014	
-	27%				
Signature:	Kun Yuan Liao				

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NPO#NAU-P2325-USA:0 CUST#UMCD-2014-0331

F#NPO-P0002E-US1201 DSC0-103U006961

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The above-identified application was	made or authorized t	o be made by me.	•	
I believe that I am the original invent application.	or or an original joint i		ed invention in	ı the
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I hereby sell, assign and transfer to the entire right, title and interest in an invention as above-identified application on the substitutes, or extensions thereof, ar	nd to any and all impro tion and, in and to, all r any continuations, co	ovements which a Letters Patent to Intinuation-in-part,	re disclosed in be obtained fo , divisions, ren	ı the or said newals.
I hereby covenant that no assignment entered into which would conflict with	nt, sale, agreement or n this assignment;	encumbrance has		e made 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 exe	ition and said Letters F estify as to the same in	Patent and legal e any interference,	quivalents as litigation proc	may be
representatives any and all papers, in maintain, issue and enforce said app equivalents thereof which may be ne IN WINTNESS WHEREOF, I have he	olication, said invention cessary or desirable to	n and said Letters o carry out the pro	Patent and sa	nid f. _(Date of signing) _
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NPO#NAU-P2325-USA:0 CUST#UMCD-2014-0331 F#NPO-P0002E-US1201 DSC0-103U006961

Inventor: Feng-Yi Chang

Signature: Feng-Yi Chang

Date: JUL 22 2014

NPO#NAU-P2325-USA:0 CUST#UMCD-2014-0331

RECORDED: 10/09/2014

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