503818448 05/10/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3865097

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Hsu Ting	05/05/2016
Chun-Wei Yu	05/05/2016
Chueh-Yang Liu	05/05/2016
Yu-Ren Wang	05/05/2016

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:	15150444

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

WINSTON HSU **Correspondent Name:** Address Line 1: P.O.BOX 506

Address Line 4: MERRIFIELD, VIRGINIA 22116

ATTORNEY DOCKET NUMBER:	NAUP2757USA
NAME OF SUBMITTER:	KATE YEH
SIGNATURE:	/KATE YEH/
DATE SIGNED:	05/10/2016

Total Attachments: 8

source=2553326#page1.tif

source=2553326#page2.tif

source=2553326#page3.tif

source=2553326#page4.tif

PATENT REEL: 038522 FRAME: 0657

503818448



PATENT REEL: 038522 FRAME: 0658

Title of Invention: SEMICONDUCTOR DEVICE AND METHOD OF FORMING 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 on	, or
☐ PCT international application	n number	filed on	
The above-identified application was	s made or authorized to be made	by me.	
l believe that I am the original invent application.	or or an original joint inventor of a	claimed invention in the	
I hereby acknowledge that any willfu under18 U.S.C. 1001 by fine or impr	I false statement made in this decisionment of not more than five (5)	claration is punishable) years, or both.	
In consideration of the payment by	UNITED MICROELECTRON	NICS having a postal add	dress 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 an	o I of the sum of One Dollar (\$ 1.0 ad valuable consideration.	0), the receipt of which is he	ereby
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 or substitutes, or extensions thereof, ar	nd to any and all improvements w tion and, in and to, all Letters Pat r any continuations, continuation-i	thich are disclosed in the ent to be obtained for said in-part, divisions, renewals.	IEE
I hereby covenant that no assignmer entered into which would conflict with	nt, sale, agreement or encumbran n this assignment;	ce has been or will be made	or
I further covenant that ASSIGNEE wand documents relating to said invented to I and will te related thereto and will promptly exerciated the second control of t	ition and said Letters Patent and l stify as to the same in any interfe	legal equivalents as may be rence, litigation proceeding	ots
representatives any and all papers, i maintain, issue and enforce said app equivalents thereof which may be ne IN WINTNESS WHEREOF, I have he	olication, said invention and said L ecessary or desirable to carry out	etters Patent and said the proposes thereof.	of signing)
Note: An application data sheet (PTC inventive entity, must accompany this	D/SB/14 or equivalent), including of some some some some some some some some	naming the entire	

Page 1 of 8

LEGAL NAME OF INVENTOR(ASSIGNOR)				
Inventor:	Hsu Ting	Date:	MAY 0 5 2016	
Signature:	HsuTing			

Page 2 of 8

Title of Invention: SEMICONDUCTOR DEVICE AND METHOD OF FORMING 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	fil	ed on	, or
☐ PCT international application	number		filed on	
The above-identified application was	made or authorized	d to be made by	me.	**************************************
I believe that I am the original inventor	or or an original join	t inventor of a cla	aimed invention i	n the
I hereby acknowledge that any willful under18 U.S.C. 1001 by fine or impri	false statement ma sonment of not mor	nde in this declar re than five (5) ye	ation is punishab ears, or both.	le
In consideration of the payment by	UNITED MICRO CORP.	ELECTRONIC	S having a po	ostal address of
No.3, Li-Hsin Road 2, Science	-Based Industria	al Park, Hsin-(Chu City 300,	Taiwan, R.O.C.
(referred to as "ASSIGNEE"below) to acknowledged, andfor other good an	I of the sum of One d valuable consider	e Dollar (\$ 1.00), ation.	the receipt of wh	iich is hereby
I hereby sell, assign and transfer to A the entire right, title and interest in ar invention as above-identified application invention by the above application or substitutes, or extensions thereof, an	nd to any and all imp tion and, in and to, a any continuations,	provements which all Letters Patent continuation-in-p	h are disclosed in to be obtained fo art, divisions, rer	n the or said newals,
I hereby covenant that no assignment entered into which would conflict with	t, sale, agreement on this assignment;	or encumbrance	has been or will l	be made 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 Letter stify as to the same	s Patent and lega in any interferen	al equivalents as ce, litigation prod	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	lication, said inventi cessary or desirable	on and said Lette to carry out the	ers Patent and sa	aid f. _(Date of signing)
Note: An application data sheet (PTC inventive entity, must accompany this				

Page 3 of 8

NPO#NAU-P2757-USA:0 CUST#UMCD-2016-0077

LEGAL NAME OF INVENTOR(ASSIGNOR)				
Inventor:	Chun-Wei Yu	Date:	MAY 0 5 2016	
Signature:	Chin-Wes	Yu		

Page 4 of 8

NPO#NAU-P2757-USA:0 CUST#UMCD-2016-0077

Title of Invention: SEMICONDUCTOR DEVICE AND METHOD OF FORMING 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	ımber	filed on	, or
☐ PCT international application	n number	filed on	
The above-identified application was	s made or authorized to be ma	ade by me.	
I believe that I am the original invent application.	tor or an original joint inventor	of a claimed invention in t	the
l hereby acknowledge that any willfu under18 U.S.C. 1001 by fine or impr	Il false statement made in this risonment of not more than five	declaration is punishable e (5) years, or both.	
In consideration of the payment by	UNITED MICROELECTS CORP.	RONICS having a pos	tal address of
No.3, Li-Hsin Road 2, Science	e-Based Industrial Park,	Hsin-Chu City 300, Ta	aiwan, R.O.C.
(referred to as "ASSIGNEE"below) to acknowledged, andfor other good ar	o I of the sum of One Dollar (\$ nd valuable consideration.	31.00), the receipt of whic	h 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, ar	nd to any and all improvement ition and, in and to, all Letters r any continuations, continuati	ts which are disclosed in t Patent to be obtained for on-in-part, divisions, rene	he said wals.
I hereby covenant that no assignmer entered into which would conflict witl	nt, sale, agreement or encumb h this assignment;	orance has been or will be	made or
I further covenant that ASSIGNEE wand documents relating to said inver known and accessible to I and will te related thereto and will promptly exe	ntion and said Letters Patent a estify as to the same in any inte	and legal equivalents as merference, litigation process	av be
representatives any and all papers, i maintain, issue and enforce said app equivalents thereof which may be ne IN WINTNESS WHEREOF, I have h	olication, said invention and sa ecessary or desirable to carry	aid Letters Patent and said out the proposes thereof.	f (Date of signing)
Note: An application data sheet (PTC inventive entity, must accompany thi	D/SB/14 or equivalent), includi s form. Use this form for <u>each</u>	ing naming the entire additional inventor.	

Page 5 of 8

NPO#NAU-P2757-USA:0 CUST#UMCD-2016-0077

LEGAL NAME OF INVENTOR(ASSIGNOR)						
Inventor:	Chueh-Yang Liu		Date:	YAM	0 5	2016
Signature:	Chueh - Yang	Lin				

Page 6 of 8

Title of Invention: SEMICONDUCTOR DEVICE AND METHOD OF FORMING 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 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 inventa application.	or or an original joint inventor of a	a claimed invention in the	
I hereby acknowledge that any willfu under18 U.S.C. 1001 by fine or impri	l false statement made in this de isonment of not more than five (5	claration is punishable) years, or both.	
In consideration of the payment by	UNITED MICROELECTROI CORP.	NICS having a postal add	ress of
No.3, Li-Hsin Road 2, Science	-Based Industrial Park, Hs	in-Chu City 300, Taiwan	, R.O.C.
(referred to as "ASSIGNEE"below) to acknowledged, andfor other good an	o I of the sum of One Dollar (\$ 1.0 d valuable consideration.	00), the receipt of which is he	reby
I hereby sell, assign and transfer to A the entire right, title and interest in ar invention as above-identified application or invention by the above application or substitutes, or extensions thereof, an	nd to any and all improvements w tion and, in and to, all Letters Pat any continuations, continuation-	rhich are disclosed in the ent to be obtained for said in-part, divisions, renewals.	EE
I hereby covenant that no assignmer entered into which would conflict with	nt, sale, agreement or encumbrar n this assignment;	ice has been or will be made	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 Patent and stify as to the same in any interfe	legal equivalents as may be rence, litigation proceeding	ts
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 invention and said L cessary or desirable to carry out	etters Patent and said the proposes thereof.	f signing)
Note: An application data sheet (PTC nventive entity, must accompany this	D/SB/14 or equivalent), including s form. Use this form for <u>each ad</u>	naming the entire ditional inventor.	

Page 7 of 8

F#NPO-P0002E-US1201 DSB0-105U007305

PATENT REEL: 038522 FRAME: 0665 Inventor: Yu-Ren Wang

Date: MAY 0 5 2016

Signature: Yu-Ren Long

NPO#NAU-P2757-USA:0 CUST#UMCD-2016-0077

RECORDED: 05/10/2016

Page 8 of 8

F#NPO-P0002E-US1201 DSB0-105U007305

PATENT REEL: 038522 FRAME: 0666