505065865 08/28/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5112621

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Feng-Yi Chang	08/24/2018
Fu-Che Lee	08/24/2018
Chieh-Te Chen	08/24/2018

RECEIVING PARTY DATA

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City:	Hsin-Chu City
State/Country:	TAIWAN
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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:	16114217

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	NAUP3127USA
NAME OF SUBMITTER:	SIBYL YU
SIGNATURE:	/SIBYL YU/
DATE SIGNED:	08/28/2018

PATENT 505065865 REEL: 046717 FRAME: 0562

Total Attachments: 6 source=3242383#page1.tif source=3242383#page2.tif source=3242383#page3.tif source=3242383#page4.tif source=3242383#page5.tif source=3242383#page6.tif

PATENT REEL: 046717 FRAME: 0563

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: METHOD OF FORMING MEMORY CAPACITOR

As the below named inventor, I here This declaration is directed to:	eby declare that:				
☑ The attached application, or	r				
☐ United States application number			_filed on, or		
☐ PCT international applicatio	n number	filed on			
The above-identified application wa	s made or authorized to be made				
I believe that I am the original inven application.	tor or an original joint inventor of a	a claime	d invention in the		
I hereby acknowledge that any willfu under18 U.S.C. 1001 by fine or imp	ul false statement made in this dec risonment of not more than five (5	claration) years,	is punishable or both.		
In consideration of the payment by	UNITED MICROELECTRON	NICS	having a postal add	ress of	
No.3, Li-Hsin Road 2, Science	e-Based Industrial Park, Hsi	in-Chu	City 300, Taiwan	, R.O.C.	
(referred to as "ASSIGNEE"below) t acknowledged, andfor other good ar	o l of the sum of One Dollar (\$ 1.0				
In consideration of the payment by	Fujian Jinhua Integrated C Co., Ltd.	ircuit	having a postal add	ress of	
No.88, Lianhua Avenue, Integ Fujian Province 362200, P.R.6	grated Circuit Science Park, C.	Jinjiar	- ng City, Quanzho	u City,	
(referred to as "ASSIGNEE"below) to acknowledged, andfor other good ar	o I of the sum of One Dollar (\$ 1.0 nd valuable consideration.	00), the r	eceipt of which is he	reby	
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 improvements wi ition and, in and to, all Letters Pate r any continuations, continuation-i	hich are ent to be	disclosed in the obtained for said	EE	
l hereby covenant that no assignmer entered into which would conflict with	nt, sale, agreement or encumbran h this assignment;	ce has b	peen or will be made	or	
further covenant that ASSIGNEE wand documents relating to said inverknown and accessible to I and will te related thereto and will promptly exe	ntion and said Letters Patent and lestify as to the same in any interfer	legal equ rence lit	uivalents as may be	ts	

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Docket No NAUP3127USA

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

AUG 2 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 NAME OF INVENTOR(ASSIGNOR)					
Inventor:	Feng-Yi Chang	Date:	AUG 2 4 2018		
Signature:	Feng-Y; Chang				

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NPO#NAU-P3127-USA:0 CUST#UMCF-2017-0102

F#NPO-P0002E-US1201 DSB0-107U000148

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: METHOD OF FORMING MEMORY CAPACITOR

As the below named inventor, I here This declaration is directed to:	eby declare that:			
☑ The attached application, or	-			
☐ United States application nu	ımber	filed	on	, or
☐ PCT international application	n number		ed on	-
The above-identified application was	s made or authorized			
I believe that I am the original inventapplication.	tor or an original join	t inventor of a claime	ed invention in the	
I hereby acknowledge that any willfu under18 U.S.C. 1001 by fine or impr	ıl false statement ma risonment of not mor	de in this declaration e than five (5) years,	n is punishable or both.	
In consideration of the payment by	UNITED MICRO CORP.	ELECTRONICS	having a postal add	dress of
No.3, Li-Hsin Road 2, Science	e-Based Industria	al Park, Hsin-Chu	– ⊢City 300, Taiwar	n, R.O.C.
(referred to as "ASSIGNEE"below) to acknowledged, andfor other good ar	o I of the sum of One	Dollar (\$ 1.00), the		
In consideration of the payment by	Fujian Jinhua In Co., Ltd.	tegrated Circuit	having a postal add	dress of
No.88, Lianhua Avenue, Integ Fujian Province 362200, P.R.G	rated Circuit Sci C.	ence Park, Jinjia	– ng City, Quanzho	ou City,
(referred to as "ASSIGNEE"below) to acknowledged, andfor other good an	o I of the sum of One and valuable consider	Doilar (\$ 1.00), the ation.	receipt of which is he	ereby
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 imp tion and, in and to, a r anv continuations. o	rovements which are Ill Letters Patent to be continuation-in-part	e disclosed in the e obtained for said	EE
hereby covenant that no assignmer entered into which would conflict with	nt, sale, agreement on this assignment;	r encumbrance has i	been or will be made	or
further covenant that ASSIGNEE wand documents relating to said inventions and accessible to I and will telelated thereto and will promptly executed.	ition and said Letters stify as to the same	Patent and legal eq	uivalents as may be	ets

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Docket No NAUP3127USA

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 ________AUG__24_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 each additional inventor.

Inventor: Fu-Che Lee Date: AUG 2 4 2018

Signature: Fu-Che Lee

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NPO#NAU-P3127-USA:0 CUST#UMCF-2017-0102

F#NPO-P0002E-US1201 DSB0-107U000148

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: METHOD OF FORMING MEMORY CAPACITOR

As the below named inventor, I here This declaration is directed to:	eby declare that:			
☑ The attached application, or	r			
☐ United States application number			on	, or
☐ PCT international applicatio			ed on	
The above-identified application was	s made or authorized			
I believe that I am the original inventage application.	tor or an original joint i	nventor of a claime	d invention in the	
I hereby acknowledge that any willfuunder18 U.S.C. 1001 by fine or impi	ul false statement mad risonment of not more	e in this declaratior than five (5) years,	n is punishable or both.	
In consideration of the payment by	UNITED MICROE	LECTRONICS	having a postal ad	dress of
No.3, Li-Hsin Road 2, Science	e-Based Industrial	Park, Hsin-Chu	– ⊢City 300, Taiwa	n, R.O.C.
(referred to as "ASSIGNEE"below) to acknowledged, andfor other good ar	o I of the sum of One I	Oollar (\$ 1.00) the		
In consideration of the payment by	Fujian Jinhua Int Co., Ltd.	egrated Circuit	having a postal ac	ldress of
No.88, Lianhua Avenue, Integ Fujian Province 362200, P.R.0	rated Circuit Scie C.	nce Park, Jinjia	 ng City, Quanzh	ou City,
(referred to as "ASSIGNEE"below) to acknowledged, andfor other good ar	o I of the sum of One I nd valuable considerat	Pollar (\$ 1.00), the lion.	receipt of which is h	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 of substitutes, or extensions thereof, ar	nd to any and all impro ition and, in and to, all r anv continuations, co	vements which are Letters Patent to be ntinuation-in-part	e disclosed in the e obtained for said divisions, renewals	
hereby covenant that no assignmer entered into which would conflict with	nt, sale, agreement or h this assignment;	encumbrance has l	been or will be mad	e or
further covenant that ASSIGNEE wand documents relating to said inventions and accessible to I and will terelated thereto and will promptly over	ntion and said Letters I estify as to the same in	Patent and legal eq any interference, li	uivalents as may be	_

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NPO#NAU-P3127-USA:0 CUST#UMCF-2017-0102

F#NPO-P0002E-US1201 DSB0-107U000148

Docket No NAUP3127USA

maintain, i equivalent	atives any and all papers, in ssue and enforce said appli s thereof which may be ned SS WHEREOF, I have here	ication, said inventic essary or desirable	on and said to carry of	d Letters Paten ut the proposes	t and said	of signing)
Note: An a inventive s	application data sheet (PTO) entity, must accompany this	/SB/14 or equivalen form. Use this form	t), includin for <u>each a</u>	g naming the e additional inven	entire tor.	
LEGAL NA	ME OF INVENTOR(ASSIG	inor)				
Inventor:	Chieh-Te Chen		Date:	AUG 2	4 2018	
Signature:	_ Chieh-Te	Chen				

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F#NPO-P0002E-US1201 DSB0-107U000148

NPO#NAU-P3127-USA:0 CUST#UMCF-2017-0102

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PATENT REEL: 046717 FRAME: 0569