PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5969379

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Wen-Jen Wang	02/14/2020
Chun-Hung Cheng	02/14/2020
Chuan-Fu Wang	02/14/2020

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:	16794194

CORRESPONDENCE DATA

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using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

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ATTORNEY DOCKET NUMBER:	NAUP3585USA
NAME OF SUBMITTER:	KATE YEH
SIGNATURE:	/KATE YEH/
DATE SIGNED:	02/18/2020

Total Attachments: 6

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PATENT REEL: 051851 FRAME: 0588

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PATENT REEL: 051851 FRAME: 0589

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:

RRAM STRUCTURE AND METHOD OF 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 number		_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 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 dec isonment of not more than five (5)	laration is punishable years, or both.	
In consideration of the payment by	UNITED MICROELECTRON CORP.	IICS having a postal addr	ess 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 d valuable consideration.	0), the receipt of which is here	eby
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 assignmer entered into which would conflict with	nt, sale, agreement or encumbran n this assignment;	ce has been or will be made o	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			
representatives any and all papers, in maintain, issue and enforce said app equivalents thereof which may be no IN WITNESS WHEREOF, I have her	lication, said invention and said L cessary or desirable to carry out	etters Patent and said	
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>			

Page 1 of 6

NPO#NAU-P3585-USA:0 CUST#UMCD-2019-0570

Docket No NAUP3585USA

LEGAL NAM	ME OF INVENTOR(ASSIGNOR)			
Inventor:	Wen-Jen Wang	Date:	FEB 1 4 2020	
Signature:	Wen-Jen Wang			

Page 2 of 6

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☐ United States application nu	ımber	filed o	on	, or
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The above-identified application was	s made or authorized to	be made by me.		
I believe that I am the original invent application.	or or an original joint ir	oventor of a claime	d invention in the	
I hereby acknowledge that any willfu under18 U.S.C. 1001 by fine or impr	ll false statement made risonment of not more t	in this declaration han five (5) years,	is punishable or both.	
In consideration of the payment by	UNITED MICROEL CORP.	ECTRONICS	having a postal a	ddress of
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(referred to as "ASSIGNEE"below) to acknowledged, andfor other good ar	o I of the sum of One E nd valuable considerati	ollar (\$ 1.00), the on.	receipt of which is	hereby
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	nt, sale, agreement or on the sale, agreement;	encumbrance has	been or will be mad	de 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				
representatives any and all papers, i maintain, issue and enforce said app equivalents thereof which may be no IN WITNESS WHEREOF, I have her	blication, said invention ecessary or desirable to	and said Letters For carry out the property	Patent and said	
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>				

Page 3 of 6

NPO#NAU-P3585-USA:0 CUST#UMCD-2019-0570

Docket No NAUP3585USA

Inventor: Chun-Hung Cheng Date: FEB 1 4 2020

Signature: Chun-Hung Cheng

Page 4 of 6

NPO#NAU-P3585-USA:0 CUST#UMCD-2019-0570

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	s made or authorized to be made	by me.	
I believe that I am the original invent 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 impr	l false statement made in this dec isonment of not more than five (5	claration is punishable) years, or both.	
In consideration of the payment by	UNITED MICROELECTRON	NICS having a postal ad	dress of
No.3, Li-Hsin Road 2, Science	-Based Industrial Park, Hsi	in-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 Dollar (\$ 1.0 nd valuable consideration.	00), the 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 applica- invention by the above application of substitutes, or extensions thereof, ar	nd to any and all improvements w tion and, in and to, all Letters Pat r any continuations, continuation-	hich are disclosed in the tent to be obtained for said in-part, divisions, renewals.	
I hereby covenant that no assignmer entered into which would conflict with	nt, sale, agreement or encumbrar n this assignment;	nce has been or will be made	e 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 Letters Patent and estify as to the same in any interfe	legal equivalents as may be rence. litigation proceeding	ects
representatives any and all papers, i maintain, issue and enforce said app equivalents thereof which may be ne IN WITNESS WHEREOF, I have her	plication, said invention and said lecessary or desirable to carry out	Letters Patent and said the proposes thereof	
Note: An application data sheet (PTC inventive entity, must accompany thi	D/SB/14 or equivalent), including s form. Use this form for each add	naming the entire ditional inventor.	

Page 5 of 6

Docket No NAUP3585USA

LEGAL NAME OF INVENTOR(ASSIGNOR)

Inventor: Chuan-Fu Wang

Date:

FEB 1 4 2020

Signature:

Chuan-Fru Wong

NPO#NAU-P3585-USA:0 CUST#UMCD-2019-0570 Page 6 of 6

F#NPO-P0002E-US1201 DSB0-108U039410

PATENT REEL: 051851 FRAME: 0595

RECORDED: 02/18/2020