505042747 08/09/2018

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Meng-Jun Wang	08/08/2018
Jiunn-Hsiung Liao	08/08/2018
Yu-Tsung Lai	08/08/2018

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:	16059046

CORRESPONDENCE DATA

Fax Number: (703)997-4517

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ATTORNEY DOCKET NUMBER:	NAUP3320USA
NAME OF SUBMITTER:	SIBYL YU
SIGNATURE:	/SIBYL YU/
DATE SIGNED:	08/09/2018

Total Attachments: 6

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PATENT 505042747 REEL: 046590 FRAME: 0972

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PATENT REEL: 046590 FRAME: 0973

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: MEMORY DEVICE

As the below named inventor, I hereby declare that: This declaration is directed to:		
☑ 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	e made by me.	
I believe that I am the original inventor or an original joint inverapplication.	ntor of a claimed invention in t	the
I hereby acknowledge that any willful false statement made in under18 U.S.C. 1001 by fine or imprisonment of not more than		
In consideration of the payment by UNITED MICROELEC CORP.	CTRONICS having a pos	tal address of
No.3, Li-Hsin Road 2, Science-Based Industrial Pa	rk, Hsin-Chu City 300, Ta	aiwan, R.O.C
(referred to as "ASSIGNEE"below) to I of the sum of One Dolla acknowledged, andfor other good and valuable consideration.		h is hereby
I hereby sell, assign and transfer to ASSIGNEE and the succe the entire right, title and interest in and to any and all improver invention as above-identified application and, in and to, all Let invention by the above application or any continuations, contin- substitutes, or extensions thereof, and as to Letters Patent and	ments which are disclosed in t ters Patent to be obtained for nuation-in-part, divisions, rene	he said wals,
I hereby covenant that no assignment, sale, agreement or endentered into which would conflict with this assignment;	umbrance has been or will be	e made or
I further covenant that ASSIGNEE will, upon its request, be preand documents relating to said invention and said Letters Pate known and accessible to I and will testify as to the same in any related thereto and will promptly execute and deliver to ASSIG	ent and legal equivalents as m y interference, litigation proce	nay be
representatives any and all papers, instruments or affidavits remaintain, issue and enforce said application, said invention an equivalents thereof which may be necessary or desirable to call WITNESS WHEREOF. I have hereunto set hand and seal to	nd said Letters Patent and said arry out the proposes thereof.	d

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

Docket No NAUP3320USA

LEGAL NAME OF INVENTOR(ASSIGNOR)

Inventor:

Meng-Jun Wang

Date:

AUG 0 8 2018

Signature:

Meng Jun Wang

Page 2 of 6

F#NPO-P0002E-US1201 DSB0-107U019702

NPO#NAU-P3320-USA:0 CUST#UMCD-2018-0207

> PATENT REEL: 046590 FRAME: 0975

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: MEMORY DEVICE

As the below named inventor, I hereby declare the This declaration is directed to:	at:	
The attached application, or		
☐ United States application number	filed on, or	
☐ PCT international application number _	filed on	
The above-identified application was made or auti	norized to be made by me.	
I believe that I am the original inventor or an original application.	al joint inventor of a claimed invention in the	
I hereby acknowledge that any willful false statem under18 U.S.C. 1001 by fine or imprisonment of n		
In consideration of the payment by UNITED M CORP.	ICROELECTRONICS having a postal address	of
No.3, Li-Hsin Road 2, Science-Based Ind	ustrial Park, Hsin-Chu City 300, Taiwan, R.C).C
(referred to as "ASSIGNEE"below) to I of the sum acknowledged, andfor other good and valuable co	of One Dollar (\$ 1.00), the receipt of which is hereby nsideration.	
I hereby sell, assign and transfer to ASSIGNEE at the entire right, title and interest in and to any and invention as above-identified application and, in a invention by the above application or any continua substitutes, or extensions thereof, and as to Letter	nd to, all Letters Patent to be obtained for said tions, continuation-in-part, divisions, renewals,	
I hereby covenant that no assignment, sale, agree entered into which would conflict with this assignment.	ement or encumbrance has been or will be made or nent;	
I further covenant that ASSIGNEE will, upon its re and documents relating to said invention and said known and accessible to I and will testify as to the related thereto and will promptly execute and deliv	same in any interference, litigation proceeding	

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>

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 on the date(s) indicated.

Page 3 of 6

Docket No NAUP3320USA

LEGAL NAME OF INVENTOR(ASSIGNOR)

Inventor: Jiunn-Hsiung Liao

Date:

AUG 0 8 2018

Signature:

Jiunn-Hsiung Liao

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F#NPO-P0002E-US1201 DSB0-107U019702

CUST#UMCD-2018-0207

NPO#NAU-P3320-USA:0

PATENT REEL: 046590 FRAME: 0977

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: MEMORY DEVICE

As the below named inventor, I hereby declare that This declaration is directed to: The attached application, or	:		
☐ United States application number	filed on	, or	
☐ PCT international application number	filed on		
The above-identified application was made or author	orized to be made by me.		
I believe that I am the original inventor or an original application.	l joint inventor of a claimed inventio	n in the	
I hereby acknowledge that any willful false stateme under18 U.S.C. 1001 by fine or imprisonment of no		able	
In consideration of the payment by UNITED MICCORP.	ROELECTRONICS having a	postal address of	
No.3, Li-Hsin Road 2, Science-Based Indu	strial Park, Hsin-Chu City 30	0, Taiwan, R.O.C	
(referred to as "ASSIGNEE" below) to I of the sum of acknowledged, and for other good and valuable con	f One Dollar (\$ 1.00), the receipt of sideration.	which is hereby	
I hereby sell, assign and transfer to ASSIGNEE and the entire right, title and interest in and to any and a invention as above-identified application and, in and invention by the above application or any continuation substitutes, or extensions thereof, and as to Letters	Ill improvements which are disclosed to, all Letters Patent to be obtained ons, continuation-in-part, divisions,	d in the d for said renewals,	
I hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment;			
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, 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 on the date(s) indicated.			

Page 5 of 6

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>

NPO#NAU-P3320-USA:0 CUST#UMCD-2018-0207 F#NPO-P0002E-US1201 DSB0-107U019702

Docket No NAUP3320USA

LEGAL NAME OF INVENTOR(ASSIGNOR)

Inventor: Yu-Tsung Lai Date: AUG 0 8 2018

Signature: In Tsun La

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F#NPO-P0002E-US1201 DSB0-107U019702

PATENT REEL: 046590 FRAME: 0979

RECORDED: 08/09/2018