#### 504952711 06/11/2018

### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT4999458

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
Ching-Wen Hung	06/06/2018
Kun-Ju Li	06/06/2018

### **RECEIVING PARTY DATA**

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City:	Hsin-Chu City	
State/Country:	TAIWAN	

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

Property Type	Number
Application Number:	16004446

### **CORRESPONDENCE DATA**

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ATTORNEY DOCKET NUMBER:	NAUP3291USA
NAME OF SUBMITTER:	KATE YEH
SIGNATURE:	/KATE YEH/
DATE SIGNED:	06/11/2018

### **Total Attachments: 4**

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> **PATENT** REEL: 046037 FRAME: 0571

504952711

# 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 MANUFACTURING MAGNETORESISTIVE RANDOM ACCESS MEMORY CELL

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 o	on	, or
☐ PCT international application	n number	file	d 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 inv	entor of a claime	d invention in th	ne
I hereby acknowledge that any willfu under18 U.S.C. 1001 by fine or impr	I false statement made isonment of not more th	in this declaratior an five (5) years,	is punishable or both.	
In consideration of the payment by	UNITED MICROELI	ECTRONICS	having a post	al address of
No.3, Li-Hsin Road 2, Science	-Based Industrial P	ark, Hsin-Chu	City 300, Ta	iwan, R.O.C.
(referred to as "ASSIGNEE"below) to I of the sum of One Dollar (\$ 1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration.				
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, 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.				
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.				

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NPO#NAU-P3291-USA:0 CUST#UMCD-2018-0102

F#NPO-P0002E-US1201 DSB0-107U012365

### Docket No NAUP3291USA

OF INVENTOR(ASSIG	SNOR)		
ning-Wen Hung		Date:	JUN 0 6 2018
Ching-Wen	Hung		
1	ing-Wen Hung	ing-Wen Hung	ing-Wen Hung Date:

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NPO#NAU-P3291-USA:0 CUST#UMCD-2018-0102 F#NPO-P0002E-US1201 DSB0-107U012365

## 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 MANUFACTURING MAGNETORESISTIVE RANDOM ACCESS MEMORY CELL

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	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	e	
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)	laration is punishable years, or both.		
In consideration of the payment by	UNITED MICROELECTRON	NICS having a posta	ıl address of	
No.3, Li-Hsin Road 2, Science	-Based Industrial Park, Hsi	n-Chu City 300, Tai	wan, R.O.C	
(referred to as "ASSIGNEE"below) to I of the sum of One Dollar (\$ 1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration.				
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, 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.				
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.				

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NPO#NAU-P3291-USA:0 CUST#UMCD-2018-0102 F#NPO-P0002E-US1201 DSB0-107U012365

LEGAL NAI	ME OF INVENTOR(ASSIGNOR		
Inventor:	Kun-Ju Li	Date:	JUN 0 6 2018
Signature:	Kı	in-Ju Li	

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NPO#NAU-P3291-USA:0 CUST#UMCD-2018-0102

**RECORDED: 06/11/2018** 

F#NPO-P0002E-US1201 DSB0-107U012365

PATENT REEL: 046037 FRAME: 0575