PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Chien-Kuo Wang	09/10/2014
Chun-Liang Hou	09/10/2014
Wen-Jung Liao	09/10/2014

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:	14489460

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

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

Address Line 4: MERRIFIELD, VIRGINIA 22116

ATTORNEY DOCKET NUMBER:	NAUP2308USA
NAME OF SUBMITTER:	KATE YEH
SIGNATURE:	/KATE YEH/
DATE SIGNED:	09/17/2014

Total Attachments: 6

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PATENT

EPAS ID: PAT3027390

502980790 REEL: 033762 FRAME: 0716

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:				
TEST KEY STRUC	TURE AND	TEST I	KEY GR	OUP

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 o	on	, or
☐ PCT international application	n number	file	ed on	
The above-identified application was	s made or authorized t	o be made by me.		
I believe that I am the original inventage application.	tor or an original joint i	nventor of a claime	d invention in	ı the
I hereby acknowledge that any willfu under18 U.S.C. 1001 by fine or impi				е
In consideration of the payment by	UNITED MICROE CORP.	LECTRONICS	having a po	ostal address of
No.3, Li-Hsin Road 2, Science	e-Based Industrial	Park, Hsin-Chu	City 300,	Taiwan, R.O.C
(referred to as "ASSIGNEE"below) t acknowledged, andfor other good ar	o I of the sum of One I nd valuable considerat	Dollar (\$ 1.00), the ion.	receipt of whi	ich 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 o substitutes, or extensions thereof, a	nd to any and all impre ation and, in and to, all r any continuations, co	ovements which are Letters Patent to b ontinuation-in-part,	e disclosed in e obtained fo divisions, ren	the r said ewals,
I hereby covenant that no assignme entered into which would conflict wit	nt, sale, agreement or h this assignment;	encumbrance has	been or will b	e made or
I further covenant that ASSIGNEE wand documents relating to said inver known and accessible to I and will to related thereto and will promptly exe	ntion and said Letters estify as to the same in	Patent and legal ed any interference, l	quivalents as litigation proc	may be
representatives any and all papers, i maintain, issue and enforce said app equivalents thereof which may be no IN WINTNESS WHEREOF, I have h	olication, said invention accessary or desirable t	n and said Letters F to carry out the pro	Patent and sa	
Note: An application data sheet (PT)				

Page 1 of 6

NPO#NAU-P2308-USA:0 CUST#UMCD-2014-0251

F#NPO-P0002E-US1201 DSC0-103U005811

Docket No NAUP2308USA

LEGAL NA	ME OF INVENTOR(ASSIGNOR)						
Inventor:	Chien-Kuo Wang		Date:	SEP	10	2014	
Signature:	Miren law Vinex		_				

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NPO#NAU-P2308-USA:0 CUST#UMCD-2014-0251 F#NPO-P0002E-US1201 DSC0-103U005811

PATENT REEL: 033762 FRAME: 0718

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: TEST KEY STRUCTURE AND TEST KEY GROUP

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 applicatio	n number	file	ed on	
The above-identified application was	s made or authorized	to be made by me.	***************************************	
I believe that I am the original inven- application.	tor or an original joint	nventor of a claime	ed invention ir	n the
I hereby acknowledge that any willfu under18 U.S.C. 1001 by fine or impr	ul false statement mad risonment of not more	e in this declaratio than five (5) years	n is punishabl , or both.	le
In consideration of the payment by	UNITED MICROE	LECTRONICS	having a po	ostal address of
No.3, Li-Hsin Road 2, Science	e-Based Industrial	Park, Hsin-Chu	 u City 300, ^т	Taiwan, R.O.C.
(referred to as "ASSIGNEE"below) to acknowledged, andfor other good as	o I of the sum of One nd valuable considera	Dollar (\$ 1.00), the ion.	receipt of wh	ich 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 o substitutes, or extensions thereof, an	nd to any and all impr ation and, in and to, all r any continuations, co	ovements which ar Letters Patent to b ontinuation-in-part.	e disclosed in be obtained fo divisions, ren	the r said ewals.
l hereby covenant that no assignment entered into which would conflict wit	nt, sale, agreement or h this assignment;	encumbrance has	been or will b	e 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 estify as to the same in	Patent and legal ed anv interference.	quivalents as litigation proc	may 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 ecessary or desirable t	n and said Letters of carry out the pro	Patent and sa	id f. (Date of signing)
Note: An application data sheet (PT0 inventive entity, must accompany thi	O/SB/14 or equivalent s form. Use this form), including naming for <u>each additional</u>	the entire	

Page 3 of 6

NPO#NAU-P2308-USA:0 CUST#UMCD-2014-0251

F#NPO-P0002E-US1201 DSC0-103U005811

Docket No NAUP2308USA

LEGAL NA	EGAL NAME OF INVENTOR(ASSIGNOR)						
Inventor:	Chun-Liang Hou	Date:	SEP 10 2014				
Signature:	Clun-Lang How	u					

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F#NPO-P0002E-US1201 DSC0-103U005811

NPO#NAU-P2308-USA:0 CUST#UMCD-2014-0251

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: TEST KEY STRUCTURE AND TEST KEY GROUP

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		
☐ PCT international application	n number	f	filed on		
The above-identified application was	made or authorize	d to be made by me			
I believe that I am the original invent application.	or or an original join	t inventor of a clain	ned invention in the		
I hereby acknowledge that any willfu under18 U.S.C. 1001 by fine or impr	l false statement ma isonment of not mo	ade in this declarati e than five (5) year	on is punishable s, 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	-Based Industri	al Park, Hsin-Cl	nu City 300, Taiwar	n, R.O.C.	
(referred to as "ASSIGNEE"below) to acknowledged, andfor other good an	d valuable consider	ation.		•	
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, an	nd to any and all imp tion and, in and to, a any continuations,	provements which a all Letters Patent to continuation-in-par	are disclosed in the be obtained for said t, divisions, renewals.		
l hereby covenant that no assignmer entered into which would conflict with	it, sale, agreement in this assignment;	or encumbrance ha	s 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 Letter stify as to the same	s Patent and legal in any interference	equivalents as may be	cts	
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 invent cessary or desirable	ion and said Letters to carry out the pr	Patent and said oposes thereof.	of signing)	
Note: An application data sheet (PTC inventive entity, must accompany this	0/SB/14 or equivale s form. Use this forn	nt), including namir n for <u>each addition</u> a	g the entire al inventor.		

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NPO#NAU-P2308-USA:0 CUST#UMCD-2014-0251

F#NPO-P0002E-US1201 DSC0-103U005811

Docket No NAUP2308USA

LEGAL NAME OF INVENTOR(ASSIGNOR)

Inventor: Wen-Jung Liao

Date:

SEP 10 2014

Signature:

Wen Jung Liao

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F#NPO-P0002E-US1201 DSC0-103U005811

NPO#NAU-P2308-USA:0 CUST#UMCD-2014-0251

RECORDED: 09/17/2014

PATENT REEL: 033762 FRAME: 0722