10/04/2018 505127826

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5174588

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Jui-Lin Hsu	09/28/2018
Chao-Ching Hung	09/28/2018
Tzu-Chin Lin	10/01/2018
Wei-Hsiu Hsu	10/03/2018
Yu-Li Hsueh	10/01/2018
Jing-Hong Conan Zhan	09/28/2018
Chih-Ming Hung	09/29/2018

RECEIVING PARTY DATA

Name:	MEDIATEK INC.
Street Address:	No. 1, Dusing Rd. 1st, Science-Based Industrial Park
City:	Hsin-Chu
State/Country:	TAIWAN

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16152391

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

5F., NO.389, FUHE RD., YONGHE DIST., Address Line 1:

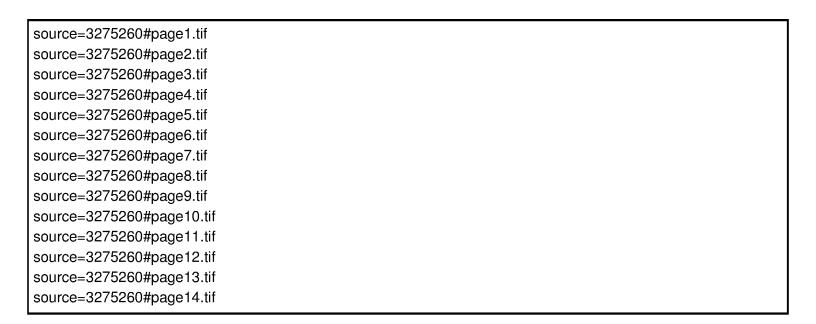
Address Line 4: NEW TAIPEI CITY, TAIWAN

ATTORNEY DOCKET NUMBER:	MTKP3226USA
NAME OF SUBMITTER:	KATE YEH
SIGNATURE:	/KATE YEH/
DATE SIGNED:	10/04/2018

Total Attachments: 14

PATENT REEL: 047078 FRAME: 0229

505127826



PATENT REEL: 047078 FRAME: 0230

Title of Invention:

WIRELESS SYSTEM HAVING LOCAL OSCILLATOR SIGNAL DERIVED FROM REFERENCE CLOCK OUTPUT OF ACTIVE OSCILLATOR THAT HAS NO ELECTROMECHANICAL RESONATOR

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 l	be made by me.	
I believe that I am the original invent application.	or or an original joint inv	entor of a claimed invention in t	he
I hereby acknowledge that any willfu under18 U.S.C. 1001 by fine or impr			
In consideration of the payment by	MEDIATEK INC.	having a post	al address of
No. 1, Dusing Rd. 1st, Science	e-Based Industrial F	Park, Hsin-Chu 300, Taiwa	n, R.O.C.
(referred to as "ASSIGNEE"below) to acknowledged, andfor other good are			n is hereby
I hereby sell, assign and transfer to the entire right, title and interest in a invention as above-identified application of substitutes, or extensions thereof, as	nd to any and all improv ation and, in and to, all L r any continuations, cont	ements which are disclosed in the etters Patent to be obtained for stinuation-in-part, divisions, renev	he said wals,
I hereby covenant that no assignme entered into which would conflict wit		ncumbrance has been or will be	made or
I further covenant that ASSIGNEE wand documents relating to said inverknown and accessible to I and will to related thereto and will promptly exercise.	ntion and said Letters Pa estify as to the same in a	atent and legal equivalents as m my interference, litigation proces	ay be
representatives any and all papers, maintain, issue and enforce said ap- equivalents thereof which may be no IN WITNESS WHEREOF, I have he	plication, said invention a ecessary or desirable to	and said Letters Patent and said carry out the proposes thereof.	ı
Note: An application data sheet (PT inventive entity, must accompany th			

Page 1 of 14

NPO#MTK-P3226-USA:0 CUST#MTKI-18-012US

Docket No MTKP3226USA

LEGAL NAME OF INVENTOR(ASSIGNOR)

Inventor:

Jui-Lin Hsu

Date:

Signature:

Page 2 of 14

F#NPO-P0002E-US1201 DSB0-107U028225

NPO#MTK-P3226-USA:0 CUST#MTKI-18-012US

Title of Invention:

WIRELESS SYSTEM HAVING LOCAL OSCILLATOR SIGNAL DERIVED FROM REFERENCE CLOCK OUTPUT OF ACTIVE OSCILLATOR THAT HAS NO ELECTROMECHANICAL RESONATOR

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I believe that I am the original inventapplication.	or or an original joint	nventor of a claimed in	vention in the
I hereby acknowledge that any willfu under18 U.S.C. 1001 by fine or impri	I false statement mad isonment of not more	e in this declaration is p than five (5) years, or b	ounishable ooth.
In consideration of the payment by	MEDIATEK INC.	ha	iving a postal address of
No. 1, Dusing Rd. 1st, Science	e-Based Industria	l Park, Hsin-Chu 30	00, Taiwan, R.O.C.
(referred to as "ASSIGNEE"below) to acknowledged, andfor other good an	o I of the sum of One ad valuable considera	Dollar (\$ 1.00), the receion.	ipt of which is hereby
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 impr tion and, in and to, al r any continuations, c	ovements which are dis Letters Patent to be ob ontinuation-in-part, divis	sclosed in the otained for said sions, renewals,
I hereby covenant that no assignmer entered into which would conflict with	nt, sale, agreement or h this assignment;	encumbrance has bee	n or will be made or
I further covenant that ASSIGNEE w and documents relating to said inven 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 equiva any interference, litiga	alents as may be
representatives any and all papers, i maintain, issue and enforce said app equivalents thereof which may be ne IN WITNESS WHEREOF, I have her	olication, said invention ecessary or desirable	n and said Letters Pate to carry out the propose	nt and said es thereof.
Note: An application data sheet (PTC inventive entity, must accompany this	D/SB/14 or equivalent s form. Use this form), including naming the for each additional inve	entire entor.

Page 3 of 14

NPO#MTK-P3226-USA:0 CUST#MTKI-18-012US

MTK01810 2018/09/28 13:00:16

Docket No MTKP3226USA

LEGAL NAME OF INVENTOR(ASSIGNOR)

Inventor:

Chao-Ching Hung

Date:

2018/9/28

Signature:

Page 4 of 14

Title of Invention:

WIRELESS SYSTEM HAVING LOCAL OSCILLATOR SIGNAL DERIVED FROM REFERENCE CLOCK OUTPUT OF ACTIVE OSCILLATOR THAT HAS NO ELECTROMECHANICAL RESONATOR

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I hereby covenant that no assignmentered into which would conflict with		encumbrance has been or wil	l be made or
I further covenant that ASSIGNEE w and 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 i	Patent and legal equivalents an any interference, litigation pro	s may be
representatives any and all papers, i maintain, issue and enforce said app equivalents thereof which may be no IN WITNESS WHEREOF, I have he	olication, said inventio ecessary or desirable	n and said Letters Patent and to carry out the proposes there	said eof.
Note: An application data sheet (PTC			

Page 5 of 14

NPO#MTK-P3226-USA:0 CUST#MTKI-18-012US

LEGAL NAME OF INVENTOR(ASSIGNOR)

Inventor: Tzu-Chin Lin

Date:

2018,10,1

Signature:

MTK01810 2018/09/28 13:00:16

Tzu-Chin Lin

Page 6 of 14

Title of Invention:

WIRELESS SYSTEM HAVING LOCAL OSCILLATOR SIGNAL DERIVED FROM REFERENCE CLOCK OUTPUT OF ACTIVE OSCILLATOR THAT HAS NO ELECTROMECHANICAL RESONATOR

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(referred to as "ASSIGNEE"below) to acknowledged, andfor other good ar			is hereby
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I hereby covenant that no assignment entered into which would conflict with	nt, sale, agreement or e h this assignment;	ncumbrance has been or will be r	nade or
I further covenant that ASSIGNEE w and documents relating to said inver known and accessible to I and will to related thereto and will promptly exe	ntion and said Letters Pa estify as to the same in a	atent and legal equivalents as ma any interference, litigation proceed	y be
representatives any and all papers, i maintain, issue and enforce said app equivalents thereof which may be no IN WITNESS WHEREOF, I have he	olication, said invention ecessary or desirable to	and said Letters Patent and said carry out the proposes thereof.	
Note: An application data sheet (PTO inventive entity, must accompany this			

Page 7 of 14

NPO#MTK-P3226-USA:0 CUST#MTKI-18-012US

Docket No MTKP3226USA

LEGAL NAME OF INVENTOR(ASSIGNOR)					
Inventor:	Wei-Hsiu Hsu		Date:	2018/10/3	
Signature:	Wet	Hsin Hon			

NPO#MTK-P3226-USA:0 CUST#MTKI-18-012US Page 8 of 14

F#NPO-P0002E-US1201 DSB0-107U028225 PATENT

REEL: 047078 FRAME: 0238

Title of Invention:

WIRELESS SYSTEM HAVING LOCAL OSCILLATOR SIGNAL DERIVED FROM REFERENCE CLOCK OUTPUT OF ACTIVE OSCILLATOR THAT HAS NO ELECTROMECHANICAL RESONATOR

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The above-identified application was	made or authorized t	o be made by me.	
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I hereby covenant that no assignment entered into which would conflict with	nt, sale, agreement or n this assignment;	encumbrance has been or will	be made or
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Note: An application data sheet (PTC inventive entity, must accompany this	D/SB/14 or equivalent) s form. Use this form	, including naming the entire for each additional inventor.	

Page 9 of 14

NPO#MTK-P3226-USA:0 CUST#MTKI-18-012US

MTK01810 2018/09/28 13:00:16

Docket No MTKP3226USA

LEGAL NAME OF INVENTOR(ASSIGNOR)

Inventor:

Yu-Li Hsueh

Date:

2018/10/1

Signature:

NPO#MTK-P3226-USA:0

CUST#MTKI-18-012US

Page 10 of 14

Title of Invention:

WIRELESS SYSTEM HAVING LOCAL OSCILLATOR SIGNAL DERIVED FROM REFERENCE CLOCK OUTPUT OF ACTIVE OSCILLATOR THAT HAS NO ELECTROMECHANICAL RESONATOR

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Note: An application data sheet (PTC inventive entity, must accompany this			

Page 11 of 14

NPO#MTK-P3226-USA:0 CUST#MTKI-18-012US

Docket No MTKP3226USA

LEGAL NAME OF INVENTOR(ASSIGNOR)

Inventor:

Jing-Hong Conan Zhan

Date:

2018.09.28

Signature:

Page 12 of 14

F#NPO-P0002E-US1201

PATENT REEL: 047078 FRAME: 0242

Title of Invention:

WIRELESS SYSTEM HAVING LOCAL OSCILLATOR SIGNAL DERIVED FROM REFERENCE CLOCK OUTPUT OF ACTIVE OSCILLATOR THAT HAS NO ELECTROMECHANICAL RESONATOR

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I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.			
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(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.			
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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.			

Page 13 of 14

NPO#MTK-P3226-USA:0 CUST#MTKI-18-012US

LEGAL NAME OF INVENTOR(ASSIGNOR)

Inventor:

Chih-Ming Hung

Date:

9/29/2018

Signature:

Chita-ming stry

Page 14 of 14

NPO#MTK-P3226-USA:0 CUST#MTKI-18-012US

RECORDED: 10/04/2018

F#NPO-P0002E-US1201 DSB0-107U028225

PATENT REEL: 047078 FRAME: 0244