502857918 06/18/2014

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT2904515

| SUBMISSION TYPE: | | NEW ASSIGNMENT | | | | |
|--|-----------|---|-----------------------------|--|--|--|
| NATURE OF CONVEYANCE: | | ASSIGNMENT | | | | |
| | | | | | | |
| | | Name | Execution Date | | | |
| Bing Xu | | | 05/11/2014 | | | |
| Li-Shin Lai | | | 05/14/2014 | | | |
| Chi-Hsueh Wang | | | 05/14/2014 | | | |
| Hsiang-Hui Chang | | | 05/14/2014 | | | |
| | τ | | | | | |
| RECEIVING PARTY DA | 1 | Singapore Pte. Ltd. | | | | |
| Street Address: | | pnopolis Walk, #03-01 Solaris | | | | |
| City: | Singapore | | | | | |
| State/Country: | | 26 | | | | |
| State/Country. | | SINGAPORE | | | | |
| PROPERTY NUMBERS | Total: 1 | | | | | |
| Property Type | | Number | | | | |
| Application Number: 14 | | 79336 | | | | |
| | | | | | | |
| CORRESPONDENCE D | | 2)007 4517 | | | | |
| | • | 3)997-4517 e e-mail address first; if that is uns | successful, it will be sent | | | |
| | | that is unsuccessful, it will be sen | | | | |
| Phone: 30272 | | 7291562 | 291562 | | | |
| Email: | | Patent.admin.uspto.cr@naipo.com | | | | |
| Correspondent Name: | | | | | | |
| Address Line 1: | | | | | | |
| Address Line 4: MERRIFIELD, VIRGINIA 22116 | | | | | | |
| ATTORNEY DOCKET NUMBER: | | MSLP0328USA | MSLP0328USA | | | |
| NAME OF SUBMITTER: | | SHELLEY KUO | | | | |
| SIGNATURE: | | /SHELLEY KUO/ | | | | |
| DATE SIGNED: | | 06/18/2014 | 06/18/2014 | | | |
| Total Attachments: 4 | | | | | | |
| source=1982380#page1.tif | | | | | | |
| source=1982380#page2.tif | | | | | | |
| source=1982380#page3.tif source=1982380#page4.tif | | | | | | |
| | | | | | | |

ASSIGNMENT OF INVENTION

In consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration.

ASSIGNOR(S) (Inventors):

| Name: | Bing Xu | Nationality: | US | |
|---|--|-------------------------------|--------------|--|
| Name: | Li-Shin Lai | Nationality: | TW | |
| Name: | Chi-Hsueh Wang | Nationality: | TW | |
| Name: | Hsiang-Hui Chang | Nationality: | TW | |
| Hereby sells, a | ssigns and transfers to | | | |
| ASSIGNEE(S |): | | | |
| Name: | MediaTek Singapore Pte. Ltd. | | | |
| Address: | No. 1 Fusionopolis Walk, #03-01 Solaris, Singapore 138628, Singapore | | | |
| 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 entitled: "TRANSMIT POWER MEASUREMENT APPARATUS HAVING PROGRAMMABLE FILTER DEVICE THAT IS SET AT LEAST BASED ON FREQUENCY RESPONSE OF TRANSMIT POWER DETECTION PATH AND RELATED TRANSMIT POWER | | | | |
| TRANSM | THAT IS SET AT LEAST BASED ON FREQU IT POWER DETECTION PATH AND RELATED | ENCY RESPONS | SE OF | |
| TRANSM | THAT IS SET AT LEAST BASED ON FREQU | ENCY RESPONS | SE OF | |
| TRANSM | THAT IS SET AT LEAST BASED ON FREQU IT POWER DETECTION PATH AND RELATED EMENT METHOD THEREOF" | ENCY RESPONS | SE OF | |
| TRANSM MEASUR Which is four | THAT IS SET AT LEAST BASED ON FREQU IT POWER DETECTION PATH AND RELATED EMENT METHOD THEREOF" | ENCY RESPONS | SE OF | |
| TRANSM MEASUR Which is four (a) | THAT IS SET AT LEAST BASED ON FREQU IT POWER DETECTION PATH AND RELATED EMENT METHOD THEREOF" d in : | JENCY RESPONS TRANSMIT POV | SE OF VER | |
| TRANSM MEASUR Which is four (a) (b) | THAT IS SET AT LEAST BASED ON FREQU IT POWER DETECTION PATH AND RELATED EMENT METHOD THEREOF" d in : U.S. patent application executed on even date | JENCY RESPONS TRANSMIT POV | SE OF VER | |

(d) _____ patent no. _____ issued _____

(e) _____International application no. _____

NPO#MSL-P0328-USA:0 CUST#MUSI-14-013US Assignment, Page 1 of 2

F#NPO-P0002E-US1 DSC0-103U003883

PATENT REEL: 033133 FRAME: 0706

PATENT

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

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment;

ASSIGNOR further covenants 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 ASSIGNOR and will testify as to the same in any interference, litigation or 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. MAY 1 1 2014

IN WITNESS WHEREOF, We have hereunto set hand and seal this $\frac{5}{11}$ (Date of signing). (##91.#23#1918#.)

Signature of IN

VENTOR

(Type name of inventor)

<u>Bing Xu</u>

<u>Li-Shin Lai</u>

Chi-Hsueh Wang

Hsiang-Hui Chang

PATENT REEL: 033133 FRAME: 0707

ASSIGNMENT OF INVENTION

In consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration.

ASSIGNOR(S) (Inventors):

| Name: | Bing Xu | Nationality: | US |
|--|---|--|--|
| Name: | Li-Shin Lai | Nationality: | TW |
| Name: | Chi-Hsueh Wang | Nationality: | TW |
| Name: | Hsiang-Hui Chang | Nationality: | TW |
| Hereby sells, as | ssigns and transfers to | | |
| ASSIGNEE(S) | : | | |
| Name: | MediaTek Singapore Pte. Ltd. | | |
| | | | |
| Address: | No. 1 Fusionopolis Walk, #03-01 Solaris, Sin | gapore 138628, | Singapore |
| and the succes any and all imp " TRANS DEVICE TRANSM | | re right, title, a n entitled: NG PROGRAMM/ JENCY RESPONS | nd interest in and to ABLE FILTER SE OF |
| and the succes any and all imp " TRANS DEVICE TRANSM | No. 1 Fusionopolis Walk, #03-01 Solaris, Sin sors and assignees of the ASSIGNEE the enti- provements which are disclosed in the invention MIT POWER MEASUREMENT APPARATUS HAVI THAT IS SET AT LEAST BASED ON FREQU IT POWER DETECTION PATH AND RELATED EMENT METHOD THEREOF" | re right, title, a n entitled: NG PROGRAMM/ JENCY RESPONS | nd interest in and to ABLE FILTER SE OF |
| and the succes any and all imp " TRANS DEVICE TRANSM MEASUR Which is foun | No. 1 Fusionopolis Walk, #03-01 Solaris, Sin sors and assignees of the ASSIGNEE the enti- provements which are disclosed in the invention MIT POWER MEASUREMENT APPARATUS HAVI THAT IS SET AT LEAST BASED ON FREQU IT POWER DETECTION PATH AND RELATED EMENT METHOD THEREOF" | re right, title, a n entitled: NG PROGRAMM/ JENCY RESPONS | nd interest in and to ABLE FILTER SE OF |
| and the succes any and all imp "TRANS DEVICE TRANSM MEASUR Which is foun (a) | No. 1 Fusionopolis Walk, #03-01 Solaris, Sin sors and assignees of the ASSIGNEE the enti- provements which are disclosed in the invention MIT POWER MEASUREMENT APPARATUS HAVI THAT IS SET AT LEAST BASED ON FREQU IT POWER DETECTION PATH AND RELATED EMENT METHOD THEREOF" d in : | re right, title, a n entitled: NG PROGRAMM/ JENCY RESPONS TRANSMIT POV | nd interest in and to ABLE FILTER SE OF WER |
| and the succes any and all imp "TRANS DEVICE TRANSM MEASUR Which is foun (a)(b) | No. 1 Fusionopolis Walk, #03-01 Solaris, Sin sors and assignees of the ASSIGNEE the enti- provements which are disclosed in the invention MIT POWER MEASUREMENT APPARATUS HAVI THAT IS SET AT LEAST BASED ON FREQU IT POWER DETECTION PATH AND RELATED EMENT METHOD THEREOF" d in : U.S. patent application executed on even date | re right, title, a n entitled: NG PROGRAMM/ JENCY RESPONS TRANSMIT POV | nd interest in and to ABLE FILTER SE OF WER |

(d) _____ patent no. _____ issued _____

(e) _____International application no. _____

NPO#MSL-P0328-USA:0 CUST#MUSI-14-013US Assignment, Page 1 of 2

F#NPO-P0002E-US1 DSC0-103U003883

PATENT REEL: 033133 FRAME: 0708

PATENT

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 of re-examination thereof

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment;

ASSIGNOR further covenants 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 ASSIGNOR and will testify as to the same in any interference, lifigation or 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, We have hereunto set hand and seal this MAY 1 4 2014 (Date of signing). (MEMAXABERICATION)

| (Type name of | inventor) | Signature of INVENTOR |
|----------------------|-----------|-----------------------|
| <u>Bing Xu</u> | | |
| <u>Li-Shin Lai</u> | | LT-Shin Lat |
| Chi-Hsueh War | ig | - Chri-Hunch Way |
| <u>Hsiang-Hui Ch</u> | ang | Hisiang Huis Chang |
| | | |

NPO#MSL-P0328-USA:0 CUST#MUSI-14-013US Assignment, Page 2 of 2

F#NPO-P0002E-US1 DSC0-103U003883 PATENT REEL: 033133 FRAME: 0709

RECORDED: 06/18/2014