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FORM PTO-1595

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OMB No. 0651-0027 (exp. 6/30/2005)



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To the Director of the United States Patent and Trademark Office: Please record the attached original documents or copy thereof.

1. Name of conveying part(ies):

- (1) Yu-Pin KUO
- (2) Yu-Pin CHOU
- (3) Shu-Rong TONG

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

2. Name and address of receiving party(ies)

Name: Realtek Semiconductor Corp.

Street Address: No. 2, Industry E. Rd. IX
Science-Based Industrial Park
Hsinchu 300, Taiwan, R.O.C.Additional name(s) & address(es) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
- ☐ Security Agreement ☐ Change of Name
- ☐ Other:

Execution Date: December 4, 2003

4. Application number(s) or patent number(s):

10820473

If this document is being filed together with a new application, the execution date of the application is:
December 4, 2003

A. Patent application No.(s)

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Daniel R. McClure
Thomas, Kayden, Horstemeyer & Risley, L.L.P.
 100 Galleria Parkway, Suite 1750
 Atlanta, Georgia 30339-5948

6. Total number of applications/patents involved: [1]

7. Total fee (37 CFR 3.41) \$ 40.00

- ☐ Enclosed
- ☒ Authorization to charge credit card (attached)

8. Deposit Account Number:

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Daniel R. McClure

Typed Name

Signature

Apr. 17, 2004

Date

Docket #: 251806-1050

Total number of pages including cover sheet, attachments, and document: [3]

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PATENT
REEL: 015200 FRAME: 0872

ASSIGNMENT OF APPLICATION FOR UNITED STATES LETTERS PATENT

Page 1 of 2

WHEREAS Yu-Pin Kuo , Yu-Pin Chou and Shu-Rong Tong

hereinafter referred to collectively as the assignor, has invented a certain improvement relating to PHASE FREQUENCY DETECTOR USED IN DIGITAL PLL SYSTEM

☒ the inventor's declaration for said application being executed concurrently with the execution of this instrument; said application to be filed in the United States Patent and Trademark Office;

☐ said application having been filed in the United States Patent and Trademark Office on _____,

authorization being hereby given to my attorney, THOMAS, KAYDEN, HORSTEMEYER & RISLEY, L.L.P. of 100 GALLERIA PARKWAY, N.W. SUITE 1500 ATLANTA, GEORGIA 30339-5948, to insert here in parentheses (Application Serial No. _____) the application serial number of said application when known;

☐ said application having been filed under the Patent Cooperation Treaty on _____, Serial No. _____, the United States of America being designated.

AND WHEREAS REALTEK SEMICONDUCTOR CORP. of No.2, Industry E. Rd. IX, Science-Based Industrial Park, Hsinchu 300, Taiwan, R.O.C., hereinafter referred to as the assignee, is desirous of acquiring the entire right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof;

NOW THIS WITNESSETH, that for and in consideration of One Dollar (\$1.00), and other good and valuable consideration paid by said assignee to said assignor, the receipt of which is hereby acknowledged, said assignor hereby assigns, sells and transfers to said assignee, and said assignee's successors and assigns, the full and exclusive right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof; said assignee, and said assignee's successors and assigns, to have, hold, exercise and enjoy the said application, including any and all divisions and continuations thereof, and the said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof, with all the rights, powers, privileges and advantages in anywise arising from or appertaining thereto, for and during the term or terms of any and all such patents when granted, including any and all renewals, reissues and prolongations thereof, for the use and benefit of said assignee, and said assignee's successors and assigns, in as ample and beneficial a manner as the said assignor might or could have held and enjoyed the same, if this assignment had not been made.

AND said assignor hereby agrees to perform, upon the request of said assignee, or said assignee's successors or assigns, any and all acts relating to the obtaining or to the asserting of said patents, including any and all renewals, reissues and prolongations thereof.

AND said assignor authorizes and requests the Commissioner of Patents and Trademarks to issue Letters Patent on said application, and on any and all divisions and continuations thereof, to said assignee, and said assignee's successors and assigns, in accordance herewith.

THOMAS, KAYDEN, HORSTEMEYER & RISLEY, L.L.P.

瑞昱編號 92A-05US || 三達編號 US1404PA

ASSIGNMENT OF APPLICATION FOR UNITED STATES LETTERS PATENT

Page 2 of 2

ASSIGNOR:

Signature: Yu-Pin Kuo

Printed Name: Yu-Pin Kuo

Date: December 4, 2003

ASSIGNOR:

Signature: Yu - Pin Chou

Printed Name: Yu-Pin Chou

Date: December 4, 2003

ASSIGNOR:

Signature: Shu-Rong Tong

Printed Name: Shu-Rong Tong

Date: December 4, 2003

WITNESS:

Signature: _____

Printed Name: _____

Date: _____

THOMAS, KAYDEN, HORSTEMEYER & RISLEY, L.L.P.

瑞昱編號 92A-05US || 三達編號 US1404PA

RECORDED: 04/07/2004

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