

03-24-2004

Atty. Docket: BHT-3111-441

To the Commissioner of Patents and Trademarks



of receiving party(ies):

1. Name of conveying party(ies):

102703067

Der-Zheng LIU; Tai-Cheng LIU; Song-Nien TUNG; Kuang-Yu YEN

Additional name(s) of conveying party(ies) attached?

☐ Yes☒ NoName: Realtek Semiconductor Corp.Foreign Address: No. 2, Industry E. Rd., IX, Science-BasedIndustrial Park, Hsinchu, Taiwan, R.O.C.

3. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ Other _____

Domestic Address: _____

Execution Date: March 3, 2004

City: _____ State _____ ZIP _____

Additional name(s) & address(es) attached? ☐ Yes ☒ No

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

If this document is being filed together with a new application, the execution date of the application is: March 3, 2004

A. Patent Application No.(s)

B. Patent Registration No.(s)

Additional numbers attached?

☐ Yes☒ No

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

Name: TROXELL LAW OFFICE PLLC5205 Leesburg PikeSuite 1404Falls Church, Virginia 22041-3401Telephone No.: (703) 575-2711Facsimile No.: (703) 575-27076. Number of applications and patents involved:
One (1)7. Total fee (37 CFR 3.41): . . . \$40.00☒ Enclosed☐ Authorized to be charged to deposit account8. Deposit account number 501874

(Attach duplicate copy of this page if paying by deposit account):

DO NOT USE THIS SPACE

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.*Bruce H. TroxellName of Person Signing
Registration No. 26,592Signature Bruce H. TroxellMarch 18, 2004

Date

Total number of pages including cover sheet, attachments, and documents:

03/19/2004 HLE333 00000047 10803047

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40.00 OP

BHT/rmh

ASSIGNMENT

WHEREAS, I (we), **Liu, Der-Zheng ; Liu, Tai-Cheng ; Tung, Song-Nien ; Yen, Kuang-Yu**

whose post office address(es) appear below, hereinafter referred to as ASSIGNOR, is (are) the owner(s) of certain new and useful improvements in

Apparatus and Method for Sampling Timing Compensation in Multi-carrier System

(Hereinafter referred to as the INVENTION) for which an application for United States Letters Patent was

9 executed on even date herewith

9 executed on:

9 filed on: Serial No.:

9 established by PCT International Patent Application No.:

WHEREAS, **Realtek Semiconductor Corp.**

whose post office address is **No.2, Industry E. Rd., IX, Science-Based Industrial Park, Hsinchu, Taiwan, R.O.C.**

hereinafter referred to as ASSIGNEE, is desirous of acquiring the entire right, title and interest in and to the same in the United States and throughout the world;

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, I (we), ASSIGNOR, by these presents do sell, assign and transfer unto said ASSIGNEE, the entire right, title, and interest in and to said INVENTION and application throughout the United States of America, including any and all United States Letters Patent granted on any division, continuation, continuation-in-part and reissue of said application; and the entire right, title and interest in and to the said INVENTION throughout the world, including the right to apply for patents and inventor certificates in respect thereof and to claim priority pursuant to rights accorded ASSIGNOR under the terms of the Paris International Convention and all other available international conventions and treaties; and the entire right, title and interest in and to any and all patents, patents of addition, utility models, patents of importation, revalidation patents and inventor certificates which may be granted throughout the world in respect of said INVENTION.

ALSO, ASSIGNOR hereby agrees to execute any documents that legally may be required in connection with the filing, prosecution and maintenance of said application or any other patent application(s) or inventor certificate(s) in the United States and in foreign countries for said INVENTION, including additional documents that may be required to affirm the rights of ASSIGNEE in and to said INVENTION, all without further consideration. ASSIGNOR also agrees, without further consideration and at ASSIGNEE's expense, to identify and communicate to ASSIGNEE at ASSIGNEE's request documents and information concerning the INVENTION that are within ASSIGNOR's possession or control, and to provide further assurances and testimony on behalf of ASSIGNEE that lawfully may be required of ASSIGNOR in respect of the prosecution, maintenance and defense of any patent application or patent encompassed within the terms of this instrument. ASSIGNOR's obligations under this instrument shall extend to ASSIGNOR's heirs, executors, administrators and other legal representatives.

ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent referred to above to ASSIGNEE, as the ASSIGNEE of the entire right, title and interest in and to the same, for ASSIGNEE's sole use and behoof; and for the use and behoof of ASSIGNEE's legal representatives and successors, to the full end of the term for which such Letters Patent may be granted, as fully and entirely as the same would have been held by ASSIGNOR had this assignment and sale not been made.

ASSIGNOR authorizes any member of the firm of **Troxell Law Office PLLC** to insert or complete any information in this document needed to effect its recordal in the U.S. Patent and Trademark Office.

Assignor Name	Liu, Der-Zheng	Address	No.123, Sec.5, ChangJung Road, Tainan, Taiwan, R.O.C.
Where Signed			
Date	Mar. 3, 2004	Signature	Der-Zheng Liu
(Notarization preferred but not required)			SS.
Before me personally appeared said _____			
And acknowledged this instrument to be his (her) free act and deed this _____ day			
of _____, 2000.			

ASSIGNMENT

Page: _____

Assignor Name Liu, Tai-Cheng	Address No.29, HsinHsing Rd., HsinHsing District, KaoHsiung, Taiwan, R.O.C.
Where Signed	
Date 2004. 3. 3	Signature <i>Liu Tai-Cheng</i>
(Notarization preferred but not required) SS.	
Before me personally appeared said _____ And acknowledged this instrument to be his (her) free act and deed this _____ day of _____, 2000.	
Notary Public My Commission Expires: _____	

Assignor Name Tung, Song-Nien	Address No.246, TzuChu Hsin Tsun, TsoYing, KaoHsiung, Taiwan, R.O.C.
Where Signed	
Date 2004. 3. 3	Signature <i>Tung Song-Nien</i>
(Notarization preferred but not required) SS.	
Before me personally appeared said _____ And acknowledged this instrument to be his (her) free act and deed this _____ day of _____, 2000.	
Notary Public My Commission Expires: _____	

Assignor Name Yen, Kuang-Yu	Address No.46, Lane 88, Aikuo Street, TaiChung, Taiwan, R.O.C.
Where Signed	
Date 2004. 3. 3	Signature <i>Yen Kuang-Yu</i>
(Notarization preferred but not required) SS.	
Before me personally appeared said _____ And acknowledged this instrument to be his (her) free act and deed this _____ day of _____, 2000.	
Notary Public My Commission Expires: _____	

JOINT ASSIGNMENT - NOTARIZATION