

03-15-2010

RECORDED

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To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies):

Shey-Shi Lu (03/03/2010) and Hsien-Ku Chen
(03/03/2010)Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance/Execution Date(s):

Execution Date(s): in parentheses after inventor name

☒ Assignment ☐ Merger ☐ Change of Name☐ Security Agreement ☐ Joint Research Agreement☐ Government Interest Assignment☐ Executive Order 9424, Confirmatory License☐ Other

2. Name and address of receiving party(ies)

Name: National Taiwan University

Internal Address:

Street Address:

No.1, Sec. 4, Roosevelt Rd.

City: Taipei City

State:

Country: Taiwan ROC Zip: 10617

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

4. Application or patent number(s):

A. Patent Application No.(s)

This application

☒ This document is being filed together with a new application.

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Tim Tingkang Xia
MORRIS, MANNING & MARTIN, LLP

Internal Address: Atty. Dkt.: 22199-74235

Street Address: 1600 Atlanta Financial Center
3343 Peachtree Road, NE

City: Atlanta

State: GA Zip: 30326

Phone Number: (404) 495-3678

Fax Number: (404) 365-9532

Email Address: trademark@mmmlaw.com

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

☒ Authorized to be charged to deposit account☐ Enclosed☐ None required (government interest not affecting title)

8. Payment Information

Deposit Account Number 50-3537

Authorized User Name Tim Tingkang Xia

9. Signature:

Signature

Tim Tingkang Xia - 45,242

Name of Person Signing

March 5, 2010

Date

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

2

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PATENT

REEL: 024081 FRAME: 0414

ASSIGNMENT OF APPLICATION FOR UNITED STATES LETTERS PATENTWHEREAS 1)Shay-Shi LU, 2)Hsien-Ku CHEN

hereinafter referred to collectively as the assignor, has invented a certain improvement relating to

PHASE-LOOKED LOOP CIRCUIT AND AN ASSOCIATED METHOD

[x] 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 attorneys,

please direct telephone calls to:

direct facsimiles to:

Email:

(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 National Taiwan Universitywho's address is No. 1, Sec. 4, Roosevelt Road, Taipei 10617, Taiwan

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.

Shay-Shi LU

Name of sole or first inventor

Signature

Date

MAR - 3 2010Hsien-Ku CHEN

Name of second inventor, if any

Signature

Date

3/3/2010**PATENT****REEL: 024081 FRAME: 0415**

Table of Contents (Selected Documents)

Date	Code	Pages	PackageID	Annotatio n	Source
03-05-2010	LET.	2	US 1271829101P1		EFSW