

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Wei-Zen Chen</td> <td>02/04/2013</td> </tr> <tr> <td>Shu-Chin Chuang</td> <td>02/04/2013</td> </tr> </tbody> </table>		Name	Execution Date	Wei-Zen Chen	02/04/2013	Shu-Chin Chuang	02/04/2013				
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<table border="1"> <tr> <td>Name:</td> <td>National Chiao Tung University</td> </tr> <tr> <td>Street Address:</td> <td>1001 University Road</td> </tr> <tr> <td>City:</td> <td>Hsinchu</td> </tr> <tr> <td>State/Country:</td> <td>TAIWAN</td> </tr> <tr> <td>Postal Code:</td> <td>300</td> </tr> </table>		Name:	National Chiao Tung University	Street Address:	1001 University Road	City:	Hsinchu	State/Country:	TAIWAN	Postal Code:	300
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CORRESPONDENCE DATA											
<p>Fax Number: 6172274420 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 617 239-0100 Email: cscherbel@edwardswildman.com Correspondent Name: EDWARDS WILDMAN PALMER LLP Address Line 1: P.O. BOX 55874 Address Line 4: BOSTON, MASSACHUSETTS 02205</p>											
ATTORNEY DOCKET NUMBER:	92751(71987)										
NAME OF SUBMITTER:	Peter F. Corless										
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CH \$40.00 13840134

ASSIGNMENT BY INVENTORS

THIS ASSIGNMENT, made by (1) Wei-Zen CHEN and (2) Shu-Chin CHUANG;

WHEREAS, Assignors have invented certain new and useful improvements in
PHASE-LOCKED LOOP WITH LOOP GAIN CALIBRATION, GAIN MEASUREMENT METHOD, GAIN
CALIBRATION METHOD AND JITTER MEASUREMENT METHOD FOR PHASE-LOCKED LOOP

set forth in a Patent application filed herewith on even date; and

WHEREAS, NATIONAL CHIAO TUNG UNIVERSITY, a small Entity organized under and pursuant to the laws of Taiwan, R.O.C. having its principal place of business at 1001 University Road, Hsinchu, Taiwan 300, (R.O.C.), is desirous of acquiring the entire right, title and interest in and to said inventions and said Application for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtained therefore and thereon.

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, Assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions and application for Letters Patent, and in and to any and all direct and indirect divisions, continuations and continuations-in-part of said application, and any and all Letters Patent in the United States and all foreign countries which may be granted therefore and thereon, and reissues, reexaminations and extensions of said Letters Patent, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by Assignee, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignors, had this sale and assignment not been made.

AND for the same consideration, Assignors hereby represent and warrant to Assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles and/or interests that have arisen to Assignee under law or that have already been transferred to Assignee, Assignors are the sole and lawful owners of the entire right, title and interest in and to the said inventions and

27792US

application for Letters Patent above-mentioned, and that the same are unencumbered and that Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, Assignors hereby covenant and agree to and with Assignee, its successors, legal representatives and assigns, that Assignors will sign all papers and documents, take all lawful oaths and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, without charge to Assignee, its successors, legal representatives and assigns, whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns, shall advise: that any proceeding in connection with said inventions, or said Patent application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions in any country, including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

AND Assignors hereby request the Commissioner of Patent and Trademarks to issue said Letters Patent of the United States to Assignee, as Assignee of said inventions and the Letters Patent to be issued thereon, for the sole use and benefit of Assignee, its successors, legal representatives and assigns.

AND Assignors hereby grant the following individuals the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document:

EDWARDS WILDMAN PALMER LLP

All practitioners at Customer Number 21874

AND Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the invention was made.

27792US

1 Wei-Zen Chen
Wei-Zen CHEN

2, 4, 2013
Date: February 4, 2013

2 Shu-Chin Chuang
Shu-Chin CHUANG

2, 4, 2013
Date: February 4, 2013