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8.30.01

U.S. Department of Commerce
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To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof

1. Name of conveying party(ies):

Bonnie I. Wang
Joseph Huang
Chiakang Sung
Xiaobao Wang
In Whan Kim
Wayne Yeung
Khai NguyenAdditional name(s) of conveying parties attached? ☐ Yes ☒ No.

3. Nature of conveyance:

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

Execution Date: March 2 & 29, April 12, May 25, andAugust 3, 2001

2. Name and address of receiving party(ies)

Name: Altera Corporation

Internal Address: _____

Street Address: 101 Innovation DriveCity: San Jose State: CA ZIP: 95134Additional names and addresses 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: _____

A. Patent Application No(s): 09/731,473

B. Patent No(s): _____

Additional numbers attached? ☐ Yes ☐ No

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

Name: Melvin D. Chan, Esq.
TOWNSEND AND TOWNSEND AND CREW LLP
Two Embarcadero Center, 8th Floor
San Francisco, California 94111-3834
(650) 326-24006. Total number of applications and patents involved 17. Total fee (37 CFR 3.41): _____ \$40.00

- ☐ Enclosed
☒ Authorized to be charged to deposit account

8. Deposit account number: 20-1430

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

09/10/2001 AAHMED1 00000091 201430 09731473

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9. Statement and signature.

*To the best of my knowledge and belief, the foregoing is true and correct and any attached copy is a true of copy of the original document.*Melvin D. ChanName of Person Signing
Atty. Reg. No. 39,626

Signature

August 28, 2001

Date

Total number of pages including cover sheet, attachments and document 5Mail documents to be recorded with required cover to:
Commissioner of Patents and Trademarks, Box Assignments
Washington, D.C. 20231

ASSIGNMENT OF PATENT APPLICATION

JOINT

WHEREAS, **BONNIE I. WANG**, of 10371 Prune Tree Lane, Cupertino, CA 95014; **JOSEPH HUANG**, of 1231 Briarleaf Circle, San Jose, CA 95131-3104; **CHIAKANG SUNG**, of 2005 Skyline Drive, Milpitas, CA 95035; **XIAOBAO WANG**, of 388 Montclair Drive, Santa Clara, CA 95051; **IN WHAN KIM**, of 111 Saratoga Avenue, #2334, Santa Clara, CA 95051; **WAYNE YEUNG**, of 1920 Ocean Avenue, #3B, San Francisco, CA 94127; and **KHAI NGUYEN**, of 499 Suisse Drive, San Jose, CA 95123; hereinafter referred to as "Assignors," are the inventors of the invention described and set forth in the below-identified application for United States Letters Patent:

Title of Invention: VOLTAGE, TEMPERATURE, AND PROCESS
INDEPENDENT PROGRAMMABLE PHASE SHIFT FOR
PLL

Date(s) of execution of Declaration:

Filing Date: December 5, 2000

Application No.: 09/731,473, which was amended February 20, 2001.

WHEREAS, **ALTERA CORPORATION**, a corporation of the state of Delaware, located at 101 Innovation Drive, San Jose, CA, 95134, hereinafter referred to as "ASSIGNEE," is desirous of acquiring an interest in the invention and application and in any U.S. Letters Patent and Registrations which may be granted on the same;

For good and valuable consideration, receipt of which is hereby acknowledged by Assignors, Assignors have assigned, and by these presents do assign to Assignee all right, title and interest in and to the invention and application and to all foreign counterparts (including patent, utility model and industrial designs), and in and to any Letters Patent and Registrations which may hereafter be granted on the same in the United States and all countries throughout the world, and to claim the priority from the application as provided by the Paris Convention. The right, title and interest is to be held and enjoyed by Assignee and Assignee's successors and assigns as fully and exclusively as it would have been held and enjoyed by Assignors had this Assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

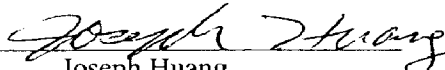
Assignors further agree that they will, without charge to Assignee, but at Assignee's expense, (a) cooperate with Assignee in the prosecution of U.S. Patent applications and foreign counterparts on the invention and any improvements, (b) execute, verify, acknowledge and deliver all such further papers, including patent applications and instruments of transfer, and (c) perform such other acts as Assignee lawfully may request to obtain or maintain Letters Patent and Registrations for the invention and improvements in any and all countries, and to vest title thereto in Assignee, or Assignee's successors and assigns.

IN TESTIMONY WHEREOF, Assignors have signed their names on the dates indicated.

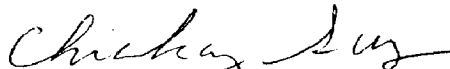
Dated: 3/2/2001

Bonnie I. Wang
Bonnie I. Wang

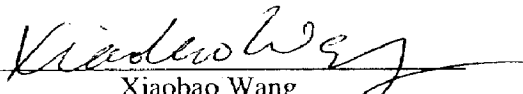
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Joseph Huang

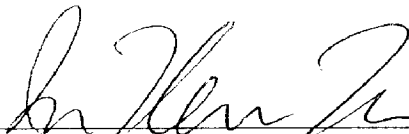
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Chiakang Sung

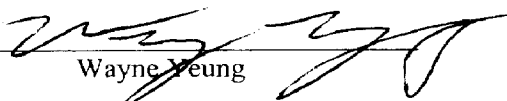
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Xiaobao Wang

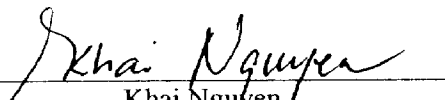
Dated: 5/25/01


In Whan Kim

Dated: 8/3/2001


Wayne Yeung

Dated: 4/12/01


Khai Nguyen