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To the Director of the U.S. Patent

103471976

d documents or the new address(es) below.

## 1. Name of conveying party(ies)

- 1) Weiqi Ding;
- 2) Mengchi Liu;
- 3) Wilson Wong; and
- 4) Sergey Shumarayev

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

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

Execution Date(s) 1) 12/4/07; 2) 12/3/07; 3) 12/3/07;  
and 12/11/07

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

## 2. Name and address of receiving party(ies)

Name: Altera Corporation

Internal Address: \_\_\_\_\_

Street Address: 101 Innovation DriveCity: San JoseState: CACountry: USA Zip: 95134Additional name(s) & address(es) attached? ☐ Yes ☒ No

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

☒ This document is being filed together with a new application  
Execution date(s): 1) 12/4/07; 2) 12/3/07; 3) 12/3/07;  
and 4) 12/11/07

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ NO

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

Name: Ropes & Gray LLP

Internal

Address: \_\_\_\_\_

Street Address: 1211 Avenue of the AmericasCity: New YorkState: NY Zip: 10036Phone Number: 212.596.9000Fax Number: 212.596.9090Email Address: robert.jackson@ropesgray.com6. Total number of applications and patents involved: 17. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

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

## 8. Payment Information

a. Credit Card Last 4 Numbers \_\_\_\_\_

Expiration Date \_\_\_\_\_

b. Deposit Account Number 061073 Order No. 12002539

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000174-0529-101

Authorized User Name Ropes & Gray LLP9. Signature: Robert R. Jackson

Signature

December 17, 2007

Date

Robert R. Jackson (Reg. No. 26,183)

Total number of pages including cover

3

Name Of Person Signing

Sheet, attachments, and documents:

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:  
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

PATENT

REEL: 020314 FRAME: 0349

12.17.07

A S S I G N M E N T

Whereas we, Weiqi Ding, Mengchi Liu, Wilson Wong, and Sergey Shumarayev, respectively residing at 44333 Parkmeadow Drive, Fremont, California 94539; 126 Doe Court, Fremont, California 94539; 21 Talbert Court, San Francisco, California 94134; and 12501 Corbetta Lane, Los Altos Hills, California 94022, have made an invention in:

## HIGH-SPEED SERIAL DATA SIGNAL RECEIVER CIRCUITRY

and are about to make application for United States Letters Patent therefor, the same having been executed by us on even date(s) herewith; and

WHEREAS, ALTERA CORPORATION, a corporation organized and existing under the laws of Delaware and having an office and place of business at 101 Innovation Drive, San Jose, California 95134-1941 is desirous of acquiring the entire interest in said invention, said United States patent application and any Letters Patent which may issue thereon;

NOW, THEREFORE, be it known that for and in consideration of the sum of One Dollar (\$1.00) to each of us paid, and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, each of us does hereby sell, assign and transfer unto the said ALTERA CORPORATION, its successors, assigns and legal representatives, all right, title and interest in and to said invention and any improvements thereon for all countries of the world, and in and to said United States patent application, including any continuations and divisions thereof, and any substitute applications therefor, and any patents which may issue thereon, and any reissues of the same, and including the right to claim priority under the International Convention based on said patent application; and all right, title and interest in and to every patent

application filed or to be filed on said invention in any other country, including renewals, revivals, continuations and divisions thereof, and any substitute applications therefor, and any and all patents which may issue thereon, and any reissues and extensions of the same; and each of us hereby authorizes and requests competent authorities to grant and issue any and all patents on said invention to the said ALTERA CORPORATION, as the assignee of the entire interest therein; and each of us further agrees to execute upon request of the assignee such additional documents, if any, as are necessary and proper to secure patent protection on said invention throughout all countries of the world, and to otherwise give full effect to and perfect the rights of the assignee under this Assignment.

IN TESTIMONY WHEREOF, each of us has hereunto signed his name and affixed his seal on the date indicated hereinafter.


12/4/2007  
Date


12/03/07  
Date

12/3/07  
Date

12/14/07  
Date

  
Weiqi Ding

  
Mengchi Liu

  
Wilson Wong

  
Sergey Shumarayev