

03/01/2011

U S DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office

3-1-11



103618887

To the Director of the U S Patent and

Documents or the new address(es) below

**1. Name of conveying party(ies)**

Ryan Fung, Vaughn Betz, David Karchmer

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

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

Execution Date(s) 11/3/2005, 11/3/2005, 11/3/2005

- ☒ 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 DRIVE

City SAN JOSE

State: CALIFORNIA

Country: USA Zip: 95134

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

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

A. Patent Application No (s)

12/928,245

☐ 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 LAWRENCE M. CHO

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

Street Address: P.O. BOX 2144

City CHAMPAIGN

State: ILLINOIS Zip 61825

Phone Number: (217) 377-2500

Fax Number (217) 356-7373

Email Address: LAWRENCE.CHO@IP-PRACTICE.COM

**6. Total number of applications and patents involved: 1**

**7. Total fee (37 CFR 1.21(h) & 3.41) \$40**

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

**8. Payment Information**

Deposit Account Number \_\_\_\_\_

Authorized User Name 03/01/2011 KNGUYEN1 00000048 12928245

01 FC:8021

40.00 0

**9. Signature:**

*Lawrence M. Cho*

Signature

February 25, 2011

Date

LAWRENCE M CHO

Name of Person Signing

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

4

ASSIGNMENT

In consideration of good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, **Ryan Fung, Vaughn Betz, and David Karchmer**, the undersigned Assignor(s), believing to be the original, first and sole or joint inventor(s) of any and all new and useful improvements disclosed in the application for the United States patent entitled **Method and Apparatus for Performing Path-level Skew Optimization and Analysis for a Logic Design** hereby sell, assign, and transfer to **Altera Corporation** a Delaware corporation, having a principal place of business at 101 Innovation Drive San Jose, CA 95134, ("Assignee"), and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States and all foreign countries, in and to any and all improvements that are disclosed in the same patent application which has been executed by the undersigned prior hereto or concurrently herewith on the dates indicated below.

The undersigned further sell, assign, and transfer to Assignee said application and all divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications that have been or shall be filed in the United States and all foreign countries on any of said improvements; and in and to all original patents, reissued patents, reexamination certificates, and extensions, that have been or shall be issued in the United States and all foreign countries on said improvements; and in and to all rights of priority resulting from the filing of said United States application; and the right to file foreign applications directly in the name of the Assignee and to claim for any such foreign applications any priority rights to which such applications are entitled under international conventions, treaties or otherwise.

The undersigned further agree that said Assignee may apply for and receive a patent or patents for said improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions and all other patent applications on any and all said improvements; execute all rightful oaths, assignments, powers of attorney, and other papers; communicate to said Assignee, its successors, assigns, and representatives all facts known to the undersigned relating to said improvements and the history thereof; and generally assist said Assignee, its successors, assigns, or representatives in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements, and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns, and legal representatives.

The undersigned covenant with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

The undersigned hereby authorize and request the Officials of the United States Patent and Trademark Office and any and all foreign Patent Offices to issue any and all Letters Patents, when granted, to said Assignee as the assignee of the entire right, title and interest in and to the same, for the sole use of said Assignee, its successors and assigns, to the full end of the term for which said Letters Patents may be granted.

The undersigned hereby grant to Lawrence M. Cho, Attorney for Applicant, located at P.O. Box 2144 Champaign, IL, 61825, the power to insert on this document any further identification necessary or desirable to comply with the rules of the United States Patent and Trademark Office for recordation of this Assignment.

**Each Inventor/Assignor: Please Sign and Date Below:**

11/3, 2005      R. Fung  
Date                      Ryan Fung

11/3, 2005      Vaughn Betz  
Date                      Vaughn Betz

\_\_\_\_\_, 20\_\_\_\_  
Date                      David Karchmer

**Please also list date you signed the accompanying DECLARATION if Assignment is executed with a new filing:**

11/3, 2005  
Date

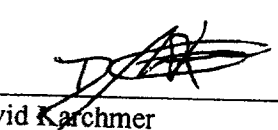
11/3, 2005  
Date

\_\_\_\_\_, 20\_\_\_\_  
Date

The undersigned hereby authorize and request the Officials of the United States Patent and Trademark Office and any and all foreign Patent Offices to issue any and all Letters Patents, when granted, to said Assignee as the assignee of the entire right, title and interest in and to the same, for the sole use of said Assignee, its successors and assigns, to the full end of the term for which said Letters Patents may be granted.

The undersigned hereby grant to Lawrence M. Cho, Attorney for Applicant, located at P.O. Box 2144 Champaign, IL, 61825, the power to insert on this document any further identification necessary or desirable to comply with the rules of the United States Patent and Trademark Office for recordation of this Assignment.

**Each Inventor/Assignor: Please Sign and Date Below:**

_____, 20____ Date	_____ Ryan Fung
_____, 20____ Date	_____ Vaughn Betz
<u>Nov 3</u> , 20 <u>05</u> Date	 _____ David Karchmer

**Please also list date you signed the accompanying DECLARATION if Assignment is executed with a new filing:**

_____, 20____ Date
_____, 20____ Date
<u>Nov 3</u> , 20 <u>05</u> Date