

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Tim Tri Hoang	12/08/2006
Sergey Shumarayev	12/08/2006
RECEIVING PARTY DATA	
Name:	Altera Corporation
Street Address:	101 Innovation Drive
City:	San Jose
State/Country:	CALIFORNIA
Postal Code:	95134
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	11610892
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Address Line 4:	Menlo Park, CALIFORNIA 94025
ATTORNEY DOCKET NUMBER:	101-01400US
NAME OF SUBMITTER:	Steven J. Cahill
Total Attachments: 2 source=AssignmtA2454#page1.tif source=AssignmtA2454#page2.tif	

OP \$40.00 11610892

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PATENT
REEL: 018636 FRAME: 0282

ASSIGNMENT OF PATENT APPLICATION

JOINT

WHEREAS, Tim Tri Hoang, of 5407 Carls Ct., San Jose, CA 95123; and Sergey Shumarayev, of 2328 Rocky Point Court, San Leandro, CA 94579; hereinafter referred to as "Assignors," are the inventors of the invention described and set forth in the below-identified non-provisional application for United States Letters Patent:

Title of Invention: Techniques For Dynamically Adjusting the Frequency Range of Phase-Locked Loops

Dates of execution of Declaration: 12/08/2006

Filing Date: 12/14/2006

Application No.: 11/610,892; and

WHEREAS, **Altera Corporation** of 101 Innovation Drive, San Jose, CA 95134, a corporation of Delaware, 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), in and to any and all continuation applications, divisional applications, and reissues thereof, 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, and 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.

Assignors hereby authorize and request The Law Office of Steven J. Cahill, 340 Laurel St., Menlo Park, CA 94025, to insert herein above the application number, the dates of execution of Declaration, and filing date of said application when known.

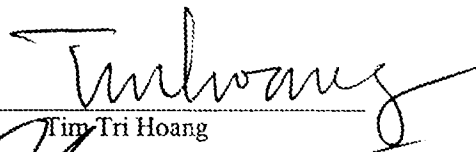
Assignment

Attorney Docket No.: 101-01400US

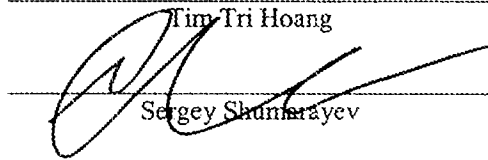
IN TESTIMONY WHEREOF, Assignors have signed their names on the dates indicated.

Dated: 12/08/06

Dated: 12/08/06



Tim Tri Hoang



Sergey Shumrayev