

PATENT ASSIGNMENT

Electronic Version v1.1

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SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Michael Chan</td> <td>05/18/2004</td> </tr> <tr> <td>Paul Leventis</td> <td>05/18/2004</td> </tr> <tr> <td>David Lewis</td> <td>05/18/2004</td> </tr> <tr> <td>Ketan Zaveri</td> <td>05/24/2004</td> </tr> <tr> <td>Hyun Mo Yi</td> <td>05/19/2004</td> </tr> </tbody> </table>		Name	Execution Date	Michael Chan	05/18/2004	Paul Leventis	05/18/2004	David Lewis	05/18/2004	Ketan Zaveri	05/24/2004	Hyun Mo Yi	05/19/2004
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CORRESPONDENCE DATA													
<p>Fax Number: (510)663-0920</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 5106631100</p> <p>Email: edurrell@wavsip.com</p> <p>Correspondent Name: G. Audrey Kwan</p> <p>Address Line 1: 500 12th Street</p> <p>Address Line 2: Suite 200</p> <p>Address Line 4: Oakland, CALIFORNIA 94607</p>													
ATTORNEY DOCKET NUMBER:	ALTRP192D1/A01059D1												
NAME OF SUBMITTER:	G. Audrey Kwan												

CH \$40.00 11623903

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PATENT
REEL: 023123 FRAME: 0724

Total Attachments: 2

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ASSIGNMENT JOINT

THIS ASSIGNMENT, by Michael CHAN, Paul LEVENTIS, David LEWIS, Ketan ZAVERI, Hyun Mo YI and Chris LANE (hereinafter referred to as the assignors), residing at 1 Chester Le Blvd. Unit #15, Scarborough, ON M1W 2M7 Canada; 1507-909 Bay Street, Toronto, ON M5S 3G2 Canada; 188 Howland Avenue, Toronto, ON M5R 3B6 Canada; 4851 Lago Vista Circle, San Jose, California 95129; 600 Rainbow Drive #182, Mountain View, California 94041 and 3133 Steven Court, San Jose, California 95148, respectively, witnesseth:

WHEREAS, said assignors have invented certain new and useful improvements in REDUNDANCY STRUCTURES AND METHODS IN A PROGRAMMABLE LOGIC DEVICE, set forth in an application for Letters Patent of the United States, having an oath or declaration executed on even date herewith; and

WHEREAS, Altera Corporation, a corporation duly organized under and pursuant to the laws of Delaware and having its principal place of business at 101 Innovation Drive, San Jose, CA 95134 (hereinafter referred to as the assignee) 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 or Patents, United States or foreign, to be obtained therefor and thereon:

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

AND for the same consideration, said assignors hereby covenant and agree to and with said assignee its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, said assignors are the sole and lawful owners of the entire right, title and interest in and to said inventions and the application for Letters Patent above-mentioned, and that the same are unencumbered and that said 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, said assignors hereby covenant and agree to and with said assignee, its successors, legal representatives and assigns, that said assignors will, whenever counsel of said assignee, or the counsel of its successors, legal representatives and assigns, shall advise that any proceeding in connection with said inventions, or said application for Letters Patent, or any proceeding in connection with Letters Patent for said inventions in any country, including interference proceedings, is lawful and desirable, or that any division, continuation or continuation-in-part of any application for Letters Patent or any reissue or extension of any Letters Patent, to be obtained thereon, is lawful and desirable, 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 Letters Patent for said inventions, without charge to said assignee, its successors, legal representatives and assigns, but at the cost and expense of said assignee, its successors, legal representatives and assigns.

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

"I hereby authorize and request the assignee's attorney to insert here in parentheses (Application number 10/856434, filed 5/28/2004) the application number and filing date of said application when known."


May 18, 2004
Date


Michael CHAN

May 18, 2004
Date


Paul LEMENTIS


May 18/04
Date


David LEWIS

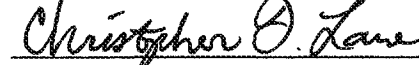
May 24/04
Date


Ketan ZAVERI

5/19/04
Date


Hyun Mo YI

5/19/04
Date


Chris LANE