503120752 12/31/2014

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE: NEW ASSIGNMENT

NATURE OF CONVEYANCE: ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
CURT WORTMAN	08/11/2010
CHONG H. LEE	07/30/2010
HUY NGO	08/18/2010

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:	14587712

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER: 10001-2005901

NAME OF SUBMITTER: ANDREW A. NOBLE

SIGNATURE: /Andrew A. Noble/

DATE SIGNED: 12/31/2014

Total Attachments: 2

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PATENT 503120752 REEL: 034608 FRAME: 0041

Attorney Docket No.: 10001-2005900

ASSIGNMENT JOINT

THIS ASSIGNMENT, by Curt Wortman, Chong H. Lee, and Huy Ngo, respectively residing in Milpitas, CA, San Ramon, CA and San Jose, CA (hereinafter referred to as the "assignors") witnesseth:

WHEREAS, said assignors have invented certain new and useful improvements in CONFIGURABLE MULTI-LANE SCRAMBLER FOR FLEXIBLE PROTOCOL SUPPORT 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-inpart 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.

number known."	<u> </u>	ze and request the assig , filed	nee's attorney to insert here in parentheses (Application) the application number and filing date of said application when
8/11	/2010	Cut In	oth
Date		Curt Wortman	
<u>7/3</u> Date	0/2010	Chong H. Lee	

Attorney Docket No.: 10001-2005900

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