## 503112481 12/22/2014 PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE: NATURE OF CONVEYANCE:		NEW ASSIGNMENT ASSIGNMENT	
		Name Ex	ecution Date
MUN FOOK LEONG		12/2	22/2014
RECEIVING PARTY D	ΑΤΑ		
Name:	ALTERA	ALTERA CORPORATION	
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Postal Code:	95134		
	14	1570207	
Application Number:		4579397	
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## ASSIGNMENT OF PATENT APPLICATION

SOLO

WHEREAS, **Mun Fook Leong**, of Bukit Mertajam, Penang, Malaysia; hereinafter referred to as "Assignor," is the inventor of any and all new and useful improvements disclosed and set forth in the belowidentified application for United States Patent (hereinafter referred to as "Said Patent Application"):

Title of Patent Application: Analog-to-Digital Converter Circuits and Methods

Filing Date: December 22, 2014

Application No.: 14/579,397

WHEREAS, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged by Assignor, Assignor hereby sells, assigns, and transfers to Altera Corporation, a corporation of Delaware, having a principal place of business at 101 Innovation Drive, San Jose, CA 95134, (hereinafter referred to as "Assignee"), the entire right, title and interest in and to Said Patent Application, to any and all improvements (hereinafter referred to as "said improvements") that are disclosed in Said Patent Application, and to all foreign counterparts to Said Patent Application (including patent, utility model and industrial designs). The Assignor further sells, transfers, and assigns to Assignee the entire right, title, and interest in and to any and all international applications, national stage applications, continuation applications, divisional 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 any and all other patent applications that have been or shall be filed in the United States and all foreign countries that claim priority to Said Patent Application; and in and to all original patents, reissued patents, registrations, 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 Patent Application; and to the right to file foreign applications directly in the name of 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 Assignor further agrees that the Assignee may apply for and receive a patent or patents for said improvements in its own name; and that, when requested, without charge to said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the Assignor will execute all divisional applications, continuation applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications on any and all of said improvements; execute all rightful oaths, declarations, assignments, powers of attorney, and other papers; communicate to said Assignee, its successors, assigns, and representatives, all facts known to the Assignor 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.

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

The Assignor hereby authorizes and requests the Officials of the United States Patent and Trademark Office and any and all foreign Patent Offices to issue any and all Patents, when granted, to said Assignee

PATENT REEL: 034570 FRAME: 0480

Attorney Docket No.: 101-10300US Altera Reference No.: A04508

## ASSIGNMENT OF PATENT APPLICATION

SOLO

WHEREAS, **Mun Fook Leong**, of Bukit Mertajam, Penang, Malaysia; hereinafter referred to as "Assignor," is the inventor of any and all new and useful improvements disclosed and set forth in the belowidentified application for United States Patent (hereinafter referred to as "Said Patent Application"):

Title of Patent Application: Analog-to-Digital Converter Circuits and Methods

Filing Date:

Application No.:

WHEREAS, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged by Assignor, Assignor hereby sells, assigns, and transfers to Altera Corporation, a corporation of Delaware, having a principal place of business at 101 Innovation Drive, San Jose, CA 95134, (hereinafter referred to as "Assignee"), the entire right, title and interest in and to Said Patent Application, to any and all improvements (hereinafter referred to as "said improvements") that are disclosed in Said Patent Application, and to all foreign counterparts to Said Patent Application (including patent, utility model and industrial designs). The Assignor further sells, transfers, and assigns to Assignee the entire right, title, and interest in and to any and all international applications, national stage applications, continuation applications, divisional 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 any and all other patent applications that have been or shall be filed in the United States and all foreign countries that claim priority to Said Patent Application; and in and to all original patents, reissued patents, registrations, 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 Patent Application; and to the right to file foreign applications directly in the name of 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 Assignor further agrees that the Assignee may apply for and receive a patent or patents for said improvements in its own name; and that, when requested, without charge to said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the Assignor will execute all divisional applications, continuation applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications on any and all of said improvements; execute all rightful oaths, declarations, assignments, powers of attorney, and other papers; communicate to said Assignee, its successors, assigns, and representatives, all facts known to the Assignor 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, in said Assignee.

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

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Page 1 of 2

PATENT REEL: 034570 FRAME: 0481 Assignment Attorney Docket No.: 101-10300US

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 Patents may be granted.

Assignor hereby authorizes and requests The Law Office of Steven J. Cahill to insert herein above the application number and filing date of Said Patent Application when known.

IN TESTIMONY WHEREOF, Assignor has signed his name on the date indicated below.

Mun Fook Leong

**RECORDED: 12/22/2014**