

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT3791405

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
ALTERA EUROPEAN TRADING COMPANY LIMITED	02/25/2016
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:	12145466
CORRESPONDENCE DATA	
Fax Number:	(281)970-4503
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
Phone:	281.970.4545
Email:	osterhaus@fyiplaw.com
Correspondent Name:	ALTERA CORPORATION C/O FLETCHER YODER PC
Address Line 1:	P.O.BOX 692289
Address Line 4:	HOUSTON, TEXAS 77269-2289
ATTORNEY DOCKET NUMBER:	A04380 / ALTR:0167
NAME OF SUBMITTER:	MATTHEW G. OSTERHAUS
SIGNATURE:	/Matthew G. Osterhaus/
DATE SIGNED:	03/18/2016
Total Attachments: 6	
source=A04380_Confirmatory_Patent_Assignment#page1.tif	
source=A04380_Confirmatory_Patent_Assignment#page2.tif	
source=A04380_Confirmatory_Patent_Assignment#page3.tif	
source=A04380_Confirmatory_Patent_Assignment#page4.tif	
source=A04380_Confirmatory_Patent_Assignment#page5.tif	
source=A04380_Confirmatory_Patent_Assignment#page6.tif	

Confirmatory Patent Assignment

This Confirmatory Patent Assignment (this "Assignment"), dated as of Feb 25, 2016, is made by and among Altera European Trading Company Limited, a private limited company organized under the laws of Ireland and a wholly-owned subsidiary of Altera Corporation ("Assignor") and Altera Corporation, a Delaware corporation ("Assignee").

WHEREAS, Assignee and Assignor have entered into that certain Intellectual Property Assignment Agreement, dated as of June 11, 2013 (the "Intellectual Property Assignment Agreement"), pursuant to which Assignor agreed to assign to Assignee all of its rights, title, and interest in the patents and applications listed on the attached Schedule A (the "Patents").

NOW, THEREFORE, in consideration of the premises and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the undersigned agrees as follows:

1. Assignment. Assignor hereby confirms having assigned, transferred, conveyed, and delivered to Assignee, effective as of the date first referred to above, all rights, title and interests of the Assignor in and to the Patents; the same to be held and enjoyed by the Assignee for Effective as of the date hereof,

2. Assignor hereby confirms having, assigned, transferred and conveyed to Assignee, for itself and its successors and assigns, and Assignee hereby confirms receipt of, all of Assignor's right, title, and interest in and to the following, to have and to hold the same for the full term or terms of the following: (a) (i) the Patents and patent applications, utility models and applications for utility models, inventor's certificates and applications for inventor's certificates, and invention disclosure statements listed in Schedule A; (ii) all patents (A) from which any of the foregoing claims priority, or (B) for which any of the foregoing, or the patents included in (A), forms a basis for priority, including any continuations, continuations in part, divisionals, foreign counterparts, re-examinations and extensions of any of the foregoing and any Patent reissuing on any of the foregoing (collectively, "Assigned Patents"); and (b) the right to sue for all past, present or future infringement of the Assigned Patents, to seek equitable relief, and to settle, collect and retain proceeds from any such actions, and any current or future right to receive royalties based on any of the foregoing.

3. Further Assurances. Assignor hereby authorizes the Commissioner of Patents and Trademarks of the United States, and the corresponding entities or agencies in any country foreign to the United States, to record Assignee as the assignee and owner of record of the Assigned Patents issued in the United States or issued or registered in any corresponding jurisdiction outside of the United States. Assignee and its attorneys of record (now and in the future) shall have the right, for each of the Assigned Patents, to insert in this Assignment any further identification information that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office, and any foreign patent office, for recordation of this document with respect to the Assigned Patents. Assignor agrees, at the request of Assignee, to take or cause to be taken all such other actions, including the execution of any and all other instruments in writing, further applications, papers, affidavits, powers of attorney, assignments and other documents, which may be reasonably required or necessary to

more effectively secure to, record in the name of, protect and vest in, Assignee and its successors and assigns, the entire right, title and interest in and to the Assigned Patents.

3. Miscellaneous

Nothing contained herein shall be deemed to alter or amend the terms and provisions of the Intellectual Property Assignment Agreement and in the event of any conflict between the terms and provisions of this Agreement and the Intellectual Property Assignment Agreement, the terms and provisions of the Intellectual Property Assignment Agreement shall be deemed to govern and be controlling in all circumstances.

IN WITNESS WHEREOF, Assignor has caused this Confirmatory Patent Assignment to be duly signed on its behalf.

For Assignor by:

**ALTERA EUROPEAN TRADING
COMPANY LIMITED**

Kim Peterson Evans
Signature

Kim Peterson Evans
Name

2/25/16
Date

Notary Seal:

See Attached
CA. All Purpose
Acknowledgement

Acknowledged and agreed to by Assignee.

For Assignee by:

ALTERA CORPORATION

Kim Peterson Evans
Signature

Kim Peterson Evans
Name

2/25/16
Date

Schedule A

Listed Purchased Patents

APM File	Country	Country Code	Kind	Status	Patent/App Nbr	Title
TPACK-001	AUSTRIA	AT	EPC	ABANDONED	AT20020797564	TELECOMMUNICATIONS NETWORK
TPACK-001	USA	US	CON	ABANDONED	10/791,374	TELECOMMUNICATIONS NETWORK
TPACK-001	USA	US	CON	ABANDONED	11/253,527	TELECOMMUNICATIONS NETWORK
TPACK-001	GERMANY	DE	EPC	GRANTED	DE20026027970	TELECOMMUNICATIONS NETWORK
TPACK-001	EUROPE	EP	PCT	GRANTED	EP1436495	TELECOMMUNICATIONS NETWORK
TPACK-001	FRANCE	FR	EPC	GRANTED	EP20020797564	TELECOMMUNICATIONS NETWORK
TPACK-001	UNITED KINGDOM	GB	EPC	GRANTED	EP20020797564	TELECOMMUNICATIONS NETWORK
TPACK-001	HONG KONG	HK	PCT	GRANTED	HK1067259/ HK20050100282	TELECOMMUNICATIONS NETWORK
TPACK-001	PCT	PCT	PCT	GRANTED	PCT/DK02/00573 7,499,449/ 11/122,981	TELECOMMUNICATIONS NETWORK
TPACK-002	USA	US	PCT	GRANTED	11/122,981	VIRTUAL ETHERNET MAC SWITCHING
TPACK-002	AUSTRALIA	AU	PCT	ABANDONED	AU2003275951	VIRTUAL ETHERNET MAC SWITCHING
TPACK-002	CANADA	CA	PCT	ABANDONED	CA20932505245	VIRTUAL ETHERNET MAC SWITCHING
TPACK-002	HONG KONG	HK	EPC	ABANDONED	HK06101604	VIRTUAL ETHERNET MAC SWITCHING
TPACK-002	SOUTH KOREA	KR	PCT	ABANDONED	KR20057008159	VIRTUAL ETHERNET MAC SWITCHING
TPACK-002	CHINA	CN	PCT	GRANTED	CN200380107841	VIRTUAL ETHERNET MAC SWITCHING
TPACK-002	INDIA	IN	PCT	GRANTED	1159/CHENP/2005	VIRTUAL ETHERNET MAC SWITCHING
TPACK-002	JAPAN	JP	PCT	GRANTED	JP20050502098	VIRTUAL ETHERNET MAC SWITCHING
TPACK-002	PCT	PCT	PCT	GRANTED	PCT/DK03/00762	VIRTUAL ETHERNET MAC SWITCHING
TPACK-002	EUROPE	EP	PCT	PENDING	EP20030810379	VIRTUAL ETHERNET MAC SWITCHING
TPACK-002	USA	US	CON	PENDING	12/358,252	VIRTUAL ETHERNET MAC SWITCHING
TPACK-003	USA	US	US	PENDING	12/145,466	SYSTEM AND METHOD FOR CREATING A SCALABLE MONOLITHIC PACKET PROCESSING ENGINE
TPACK-003	EUROPE	EP	PCT	ABANDONED	EP08874790	SYSTEM AND METHOD FOR CREATING A SCALABLE MONOLITHIC PACKET PROCESSING ENGINE
TPACK-003	PCT	PCT	PCT	ABANDONED	PCT/US08/68812	SYSTEM AND METHOD FOR CREATING A SCALABLE MONOLITHIC PACKET PROCESSING ENGINE
TPACK-003	PCT	PCT	PCT	ABANDONED	PCT/IB08/03686	SYSTEM AND METHOD FOR CREATING A SCALABLE MONOLITHIC PACKET PROCESSING ENGINE
TPACK-004	USA	US	US	GRANTED	7,984,028/ 12/124,225	SYSTEM AND METHOD FOR APPLICATION OF HASH FUNCTION IN TELECOMMUNICATION AND NETWORKING
TPACK-004	PCT	PCT	PCT	ABANDONED	PCT/IB08/03697	SYSTEM AND METHOD FOR APPLICATION OF HASH FUNCTION IN TELECOMMUNICATION AND NETWORKING
TPACK-003	PCT	PCT	PCT	ABANDONED	PCT/US08/68825	SYSTEM AND METHOD FOR APPLICATION OF HASH FUNCTION IN TELECOMMUNICATION AND NETWORKING

CALIFORNIA ALL- PURPOSE CERTIFICATE OF ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California }

County of Santa Clara }

On Feb. 25, 2016 before me, Terena Tellas, Notary Public
(Here insert name and title of the officer)

personally appeared Kim Peterson Evans,
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Terena Tellas
Notary Public Signature



(Notary Public Seal)

ADDITIONAL OPTIONAL INFORMATION

DESCRIPTION OF THE ATTACHED DOCUMENT
Confirmatory Patent Assignment
(Title or description of attached document)
Altera European Trading Co. Ltd
(Title or description of attached document continued)
Number of Pages 5 Document Date Feb. 25, 16

INSTRUCTIONS FOR COMPLETING THIS FORM

This form complies with current California statutes regarding notary wording and, if needed, should be completed and attached to the document. Acknowledgments from other states may be completed for documents being sent to that state so long as the wording does not require the California notary to violate California notary law.

- State and County information must be the State and County where the document signer(s) personally appeared before the notary public for acknowledgment.
- Date of notarization must be the date that the signer(s) personally appeared which must also be the same date the acknowledgment is completed.
- The notary public must print his or her name as it appears within his or her commission followed by a comma and then your title (notary public).
- Print the name(s) of document signer(s) who personally appear at the time of notarization.
- Indicate the correct singular or plural forms by crossing off incorrect forms (i.e. ~~he/she/they~~, is /are) or circling the correct forms. Failure to correctly indicate this information may lead to rejection of document recording.
- The notary seal impression must be clear and photographically reproducible. Impression must not cover text or lines. If seal impression smudges, re-seal if a sufficient area permits, otherwise complete a different acknowledgment form.
- Signature of the notary public must match the signature on file with the office of the county clerk.
 - ❖ Additional information is not required but could help to ensure this acknowledgment is not misused or attached to a different document.
 - ❖ Indicate title or type of attached document, number of pages and date.
 - ❖ Indicate the capacity claimed by the signer. If the claimed capacity is a corporate officer, indicate the title (i.e. CEO, CFO, Secretary).
- Securely attach this document to the signed document with a staple.

CAPACITY CLAIMED BY THE SIGNER

- Individual (s)
 Corporate Officer

(Title)
 Partner(s)
 Attorney-in-Fact
 Trustee(s)
 Other _____