

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT4620219

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
BASHAR ABDULLAH	09/13/2017
KEVIN ESTABROOKS	09/13/2017
GREGORY VANDERYDT	09/13/2017
STEPHEN DONALD CROOKS	09/13/2017
RECEIVING PARTY DATA	
Name:	CIENA CORPORATION
Street Address:	7035 RIDGE ROAD
City:	HANOVER
State/Country:	MARYLAND
Postal Code:	21076
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15719175
CORRESPONDENCE DATA	
Fax Number:	(713)228-8778
<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:	7132288600
Email:	fuentes@oshaliang.com
Correspondent Name:	ROBERT P. LORD
Address Line 1:	909 FANNIN ST
Address Line 2:	SUITE 3500
Address Line 4:	HOUSTON, TEXAS 77010
ATTORNEY DOCKET NUMBER:	18311/071001
NAME OF SUBMITTER:	ROBERT P. LORD
SIGNATURE:	/Robert P. Lord/
DATE SIGNED:	09/29/2017
Total Attachments: 3	
source=Assignment as filed 18311.071001#page1.tif	
source=Assignment as filed 18311.071001#page2.tif	

ASSIGNMENT -- WORLDWIDE

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the undersigned individual(s) (referred to herein as the "INVENTOR(S)") hereby assign, transfer, and set over to:

Ciena Corporation

having the following address:

7035 Ridge Road
Hanover, Maryland 21076-1426

(referred to herein as "COMPANY"), its successors, and assigns, the entire right, title, and interest, worldwide, in and to the invention known by the following title:

PSEUDOWIRE CLOCK RECOVERY

for which the INVENTOR(S) or COMPANY has/have made an application for patent in the United States of America, together with said patent application, all divisions, continuations, continuations-in-part, reissues, and extensions thereof, and all Letters Patent (domestic and foreign) which may be granted therefor. Such interest represents the entire ownership of said applications and Letters Patent when granted and is to be owned by COMPANY, its successors, and assigns, or their legal representatives, for the full and entire term for which such Letters Patent may be granted or extended, as fully and entirely as the same would have been enjoyed by the INVENTOR(S) if this assignment had not been made.

In addition, the undersigned INVENTOR(S) each hereby agrees:

1. To sign and execute any further documents which may be necessary or desirable, lawful, and proper in connection with the prosecution of all applications for patent(s) on the INVENTION in the United States, including without limitation said application and all divisions, continuations, continuations-in-part, amendments thereof, and all interference proceedings associated therewith, or otherwise necessary or desirable to secure the title thereto to COMPANY;
2. To execute all papers and documents and to perform all lawful acts which may be necessary in connection with claims to priority or otherwise under the International Convention for the Protection of Industrial Property or similar treaties or agreements;
3. To perform all lawful affirmative acts which may be necessary to obtain the grant of a valid and enforceable patent to COMPANY.

The undersigned INVENTOR(S) each hereby authorizes and requests the Commissioner of Patents and Trademarks in the United States to issue any and all Letters Patent resulting from said application, including without limitation any division, continuation, continuation-in-part, or reissue thereof to COMPANY.

The undersigned INVENTOR(S) each hereby grants to the firm of OSHA LIANG LLP the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for the recordation of this document.

OSHALIANG
Intellectual Property Law

IN WITNESS WHEREOF, this Assignment has been executed by each of the undersigned individuals on the date appearing by such individual's signature:

_____	1 st Inventor Signature: _____
Date	Print or Type Name: Bashar Abdullah
13 Sept. 2017	2 nd Inventor Signature: _____
Date	Print or Type Name: Kevin Estabrooks
13 Sept. 2017	3 rd Inventor Signature: _____
Date	Print or Type Name: Gregory Vanderydt
13 Sept. 2017	4 th Inventor Signature: _____
Date	Print or Type Name: Stephen Donald Crooks

When this Assignment is not filed concurrently with the patent application,
the following identifying information may be added after execution:

U.S. Application Serial No.: 15/719,175
Filing Date: September 28, 2017

OSHA LIANG

Intellectual Property Law

IN WITNESS WHEREOF, this Assignment has been executed by each of the undersigned individuals on the date appearing by such individual's signature:

_____	1 st Inventor Signature: _____
Sep.13.2017	_____
Date	Print or Type Name: Bashar Abdullah
_____	2 nd Inventor Signature: _____
Date	Print or Type Name: Kevin Estabrooks
_____	3 rd Inventor Signature: _____
Date	Print or Type Name: Gregory Vanderydt
_____	4 th Inventor Signature: _____
Date	Print or Type Name: Stephen Donald Crooks

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