### 506973185 11/11/2021

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 EPAS ID: PAT7020023 Stylesheet Version v1.2

 SUBMISSION TYPE:
 NEW ASSIGNMENT

 NATURE OF CONVEYANCE:
 ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
TUNG NGUYEN	11/10/2021
TIMOTHY CREASY	11/11/2021
SHAHAB OVEIS GHARAN	11/11/2021

#### **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:	17524251

#### **CORRESPONDENCE DATA**

**Fax Number:** (800)660-3911

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.

**Phone:** 416-630-0071

Email: uspto@integralip.com

Correspondent Name: INTEGRAL IP

Address Line 1: 1370 DON MILLS ROAD, SUITE 300
Address Line 4: TORONTO, CANADA M3B 3N7

ATTORNEY DOCKET NUMBER: C10.2865.CIP

NAME OF SUBMITTER: AMY SCOUTEN

SIGNATURE: /Amy Scouten, Reg. #73,057/

DATE SIGNED: 11/11/2021

#### **Total Attachments: 3**

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PATENT 506973185 REEL: 058088 FRAME: 0708

Attorney Docket No.: C10.2865,CIP PATENT

## ASSIGNMENT

WHEREAS, Tung NGUYEN and Timothy CREASY and Shahab OVEIS GHARAN (hereinafter referred to as "ASSIGNORS") have invented certain new and useful improvements in an invention entitled:

# BLIND ESTIMATION OF RESIDUAL CHROMATIC DISPERSION AND CARRIER FREQUENCY OFFSET

for which an application for a United States patent is being submitted to the United States Patent and Trademark Office herewith; and

WHEREAS, Ciena Corporation, 7035 Ridge Road, Hanover, MD 21076 USA (hereinafter referred to as "ASSIGNEE") is desirous of acquiring the entire right, title, and interest in and to said invention, and in and to said application and any Letters Patent that may issue thereon;

NOW, THEREFORE, in accordance with obligations entered into pursuant to an Employment Agreement or other agreement and/or for other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, ASSIGNORS hereby sell, transfer and assign to said ASSIGNEE, and to ASSIGNEE'S successors and assigns, ASSIGNORS' entire right, title, and interest in and to said invention and improvements invented and originated by ASSIGNORS in the United States and its territorial possessions and in any and all foreign countries and to all Letters Patent or similar legal protections in the United States and its territorial possessions and in any and all foreign countries to be obtained for said invention by said application or any application claiming priority to/from the application, or any continuation, division, continuation-in-part, reexamination, renewal, substitute, extension, or reissue thereof or any legal equivalent thereof in a foreign country for the full term(s) for which the same may be granted; and authorize and request the Commissioner for Patents of the United States and any official of any foreign country whose duty it is to issue patents or legal equivalents thereof, to issue same for this invention to ASSIGNEE, its lawful successors and assigns.

ASSIGNORS further covenant that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention, said application, and said Letters Patent and legal equivalents thereof in foreign countries as may be known and accessible to ASSIGNORS and will testify as to the same in any administrative proceeding or litigation related thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments, or affidavits required to apply for, obtain, maintain, issue, and/or enforce said invention, said application, and said Letters Patent and legal equivalents thereof in foreign countries which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, we have hereunto set hand and signed on the date indicated below:

Tung NGUYEN	Date:	Nov. 10, 202
Timothy CREASY	Date:	
Shahab OVEIS CHARAN	Date:	

PATENT REEL: 058088 FRAME: 0709

PATENT

## ASSIGNMENT

WHEREAS, Tung NGUYEN and Timothy CREASY and Shahab OVEIS GHARAN (hereinafter referred to as "ASSIGNORS") have invented certain new and useful improvements in an invention entitled:

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ASSIGNORS further covenant that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention, said application, and said Letters Patent and legal equivalents thereof in foreign countries as may be known and accessible to ASSIGNORS and will testify as to the same in any administrative proceeding or litigation related thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments, or affidavits required to apply for, obtain, maintain, issue, and/or enforce said invention, said application, and said Letters Patent and legal equivalents thereof in foreign countries which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, we have hereunto set hand and signed on the date indicated below:

	Date:	
Tung NGUYEN		
Jim Ceosy	Date:	Nov. 11, 2021
Timothy CREASY	•	***************************************
	Date:	
Shahab OVEIS GHARAN		

PATENT REEL: 058088 FRAME: 0710 Attorney Docket No.: C10.2865.CIP PATENT

## **ASSIGNMENT**

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IN WITNESS WHEREOF, we have hereunto set hand and signed on the date indicated below:

	Date:	
Tung NGUYEN	•	
	Date:	
Timothy CREASY		
Shahad One's Gh_	Date:	November 11, 2021
Shahah OVEIS CHARAN	•	

PATENT REEL: 058088 FRAME: 0711

**RECORDED: 11/11/2021**