

PATENT ASSIGNMENT COVER SHEET

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Stylesheet Version v1.2

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
FRANCISCO JAVIER VAQUERO-CABALLERO	03/09/2022
MICHAEL ANDREW REIMER	03/09/2022
SEB SAVORY	03/10/2022
MAURICE O'SULLIVAN	03/07/2022
MOHAMMAD EBRAHIM MOUSA PASANDI	03/08/2022
DAVID IVES	03/10/2022
MICHAEL HUBBARD	03/07/2022
ANDREW D. SHINER	03/08/2022
RECEIVING PARTY DATA	
Name:	CIENA CORPORATION
Street Address:	7035 RIDGE ROAD
City:	HANOVER
State/Country:	MARYLAND
Postal Code:	21076
PROPERTY NUMBERS Total: 2	
Property Type	Number
Application Number:	17458915
Application Number:	63071478
CORRESPONDENCE DATA	
Fax Number:	(800)660-3911
<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:	416-630-0071
Email:	uspto@integralip.com
Correspondent Name:	INTEGRAL IP
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Address Line 4:	TORONTO, CANADA M3B 3N7
ATTORNEY DOCKET NUMBER:	C10.2763
NAME OF SUBMITTER:	AMY SCOUTEN

SIGNATURE:	/Amy Scouten, Reg. #73,057/
DATE SIGNED:	03/10/2022
Total Attachments: 5 source=2763_Assignment#page1.tif source=2763_Assignment#page2.tif source=2763_Assignment#page3.tif source=2763_Assignment#page4.tif source=2763_Assignment#page5.tif	

ASSIGNMENT

WHEREAS, Francisco Javier VAQUERO-CABALLERO and Michael Andrew REIMER and Seb SAVORY and Maurice O'SULLIVAN and Mohammad Ebrahim MOUSA PASANDI and David IVES and Michael HUBBARD and Andrew D. SHINER (hereinafter referred to as "ASSIGNORS") have invented certain new and useful improvements in an invention entitled:

**ESTIMATION OF COMMUNICATION SYSTEM IMPAIRMENTS USING
SPECTRALLY SELECTIVE SIGNAL PERTURBATIONS**

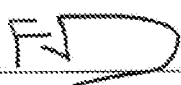
for which United States Patent Application No. 17/458,915 was filed on Aug 27, 2021, and for which United States Provisional Patent Application No. 63/071,478 entitled SPECTRAL SHAPING FOR NOISE SEGREGATION was filed on Aug. 28, 2020; and

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:



Francisco Javier VAQUERO-CABALLERO

Date: 09 - March - 2022

Michael Andrew REIMER

Date: _____

ASSIGNMENT

WHEREAS, Francisco Javier VAQUERO-CABALLERO and Michael Andrew REIMER and Seb SAVORY and Maurice O'SULLIVAN and Mohammad Ebrahim MOUSA PASANDI and David IVES and Michael HUBBARD and Andrew D. SHINER (hereinafter referred to as "ASSIGNORS") have invented certain new and useful improvements in an invention entitled:

ESTIMATION OF COMMUNICATION SYSTEM IMPAIRMENTS USING SPECTRALLY SELECTIVE SIGNAL PERTURBATIONS

for which United States Patent Application No. 17/458,915 was filed on Aug 27, 2021, and for which United States Provisional Patent Application No. 63/071,478 entitled SPECTRAL SHAPING FOR NOISE SEGREGATION was filed on Aug. 28, 2020; 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;

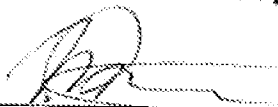
NOW, THEREFORE, in accordance with obligations entered into pursuant to an Employment Agreement or other agreement and/or for other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, ASSIGNORS hereby sell, transfer and assign to said ASSIGNEE, and to ASSIGNEE'S 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:

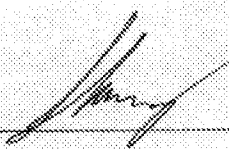
Francisco Javier VAQUERO-CABALLERO

Date: _____



Michael Andrew REIMER

Date: May 9, 2022


Seb SAVORY

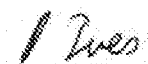
Date: 10TH March 2022

Maurice O'SULLIVAN

Date: _____

Mohammad Ebrahim MOUSA PASANDI

Date: _____


David IVES

Date: 10 - March - 2022

Michael HUBBARD


Date: _____

Andrew D. SHINER

Date: _____

Seb SAVORY

Date: _____


Maurice O'SULLIVAN

Date: MARCH 7 2022


Mohanmad Ebrahim MOUSA PASANDI

Date: March 08, 2022

David IVES

Date: _____

Michael HUBBARD

Date: _____


Andrew D. SHINER

Date: 08 MAR 2022

Seb SAVORY

Date: _____

Maurice O'SULLIVAN


Date: _____

Mohammad Ebrahim MOUSA PASANDI

Date: _____

David IVES

Date: _____


Michael HUBBARD

Date: March 7, 2022

Andrew D. SHINER

Date: _____