

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT6097356

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
SHAHAB OVEIS GHARAN	08/10/2017
MOHAMMAD EHSAN SEIFI	08/08/2017
KIM B. ROBERTS	08/09/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	CIENA CORPORATION
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<b>State/Country:</b>	MARYLAND
<b>Postal Code:</b>	21076
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	16603623
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<b>ATTORNEY DOCKET NUMBER:</b>	C10.2492.CON
<b>NAME OF SUBMITTER:</b>	AMY SCOUTEN
<b>SIGNATURE:</b>	/Amy Scouten, Reg. #73,057/
<b>DATE SIGNED:</b>	05/08/2020
<b>Total Attachments: 1</b>	
source=2492_Assignment_Inventors to Ciena#page1.tif	

ASSIGNMENT

WHEREAS, Shahab Oveis Gharan; Mohammad Ehsan Seifi; and Kim B. Roberts (hereinafter referred to as "ASSIGNORS") have invented certain new and useful improvements in an invention entitled:

**FORWARD ERROR CORRECTION WITH CONTRAST CODING**

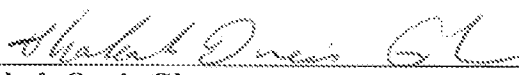
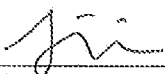
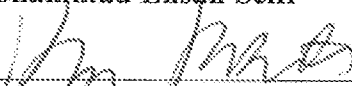
for which an application for a United States patent is being submitted to the United States Patent and Trademark Office herewith; and

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:

	Date: <u>Aug 10th, 2017</u>
<b>Shahab Oveis Gharan</b>	
	Date: <u>8, 8, 2017</u>
<b>Mohammad Ehsan Seifi</b>	
	Date: <u>Aug 9, 2017</u>
<b>Kim B. Roberts</b>	