

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
SHAHAB OVEIS GHARAN	11/28/2012
KIM B ROBERTS	11/28/2012
MAHMOUD TAHERZADEHBOROUJENI	11/28/2012
AMIR KHANDANI	12/03/2012
AKBAR GHASEMI	11/29/2012
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City:	HANOVER
State/Country:	MARYLAND
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PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15268746
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DATE SIGNED:	10/13/2016
Total Attachments: 4	
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ASSIGNMENT

WHEREAS, Shahab OVEIS GHARAN; Kim B. ROBERTS; Mahmoud TAHERZADEHBOROUJENI, Amir KHANDANI and Akbar GHASEMI (hereinafter referred to as "ASSIGNORS") have invented certain new and useful improvements in an invention entitled:

MINIMUM VARIANCE CARRIER RECOVERY WITH INCREASED PHASE NOISE TOLERANCE

for which U.S. Patent Application No. 13,689,117 was filed on November 29, 2012.

WHEREAS, CIENA CORPORATION, 7035 Ridge Road, Hanover, Maryland, 21076-1426 United States (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 interference 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.

[Signature Page Follows]

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

Full Name of Joint/Second Inventor: **Shahab OVEIS GHARAN**

Inventor's Signature: Shahab Oveis GL Date: Nov. 28, 2012

Full Name of Sole/First Inventor: **Kim B. ROBERTS**

Inventor's Signature: Kim Roberts Date: Nov 28 2012

Full Name of Joint/Third Inventor: **Mahmoud TAHERZADEHBOROUJENI**

Inventor's Signature: Mahmoud Date: Nov. 28, 2012

Full Name of Joint/Fourth Inventor: **Amir KHANDANI**

Inventor's Signature: _____ Date: _____

Full Name of Joint/Fifth Inventor: **Akbar GHASEMI**

Inventor's Signature: _____ Date: _____

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

Full Name of Sole/First Inventor: **Kim B. ROBERTS**

Inventor's Signature: _____ Date: _____

Full Name of Joint/Second Inventor: **Shahab OVEIS GHARAN**

Inventor's Signature: _____ Date: _____

Full Name of Joint/Third Inventor: **Mahmoud TAHERZADEHBOROUJENI**

Inventor's Signature: _____ Date: _____

Full Name of Joint/Fourth Inventor: **Amir KHANDANI**

Inventor's Signature: A. K. L. Date: Dec 3, 2012

Full Name of Joint/Fifth Inventor: **Akbar GHASEMI**

Inventor's Signature: _____ Date: _____

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

Full Name of Sole/First Inventor: **Kim B. ROBERTS**

Inventor's Signature: _____ Date: _____

Full Name of Joint/Second Inventor: **Shahab OVEIS GHARAN**

Inventor's Signature: _____ Date: _____

Full Name of Joint/Third Inventor: **Mahmoud TAHERZADEHBOROUJENI**

Inventor's Signature: _____ Date: _____

Full Name of Joint/Fourth Inventor: **Amir KHANDANI**

Inventor's Signature: _____ Date: _____

Full Name of Joint/Fifth Inventor: **Akbar GHASEMI**

Inventor's Signature:  Date: Nov. 29, 2012