502050815 09/06/2012

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Marc Holness	09/04/2012
Gerald Smallegange	09/04/2012
Brett Caldwell	08/31/2012

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:	13605518

CORRESPONDENCE DATA

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 7043669744

 Phone:
 704-790-3600

Email: bbrown@worldpatents.com

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US

Mail.

Correspondent Name: Clements Bernard PLLC
Address Line 1: 1901 Roxborough Road

Address Line 2: Suite 250

Address Line 4: Charlotte, NORTH CAROLINA 28211

ATTORNEY DOCKET NUMBER:	10.2108 / CIENA
NAME OF SUBMITTER:	Christopher L. Bernard

Total Attachments: 3

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> PATENT REEL: 028909 FRAME: 0505

OF \$40.00 13605518

INT WITH TENDER WITTENSTONE

ASSIGNMENT

WHEREAS, Marc Holness, Gerald Smallegange, and Brett Caldwell (hereinafter referred to as "ASSIGNORS") have invented certain new and useful improvements in an invention entitled:

PROTECTION SYSTEMS AND METHODS FOR HANDLING MULTIPLE FAULTS AND ISOLATED NODES IN INTERCONNECTED RING NETWORKS

for which U.S. Patent Application No. 13/605, 518 was filed on 09/06/2012.

WHEREAS, CIENA CORPORATION, 7035 Ridge Road, Hanover, Maryland 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 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.

IN WITNESS WHEREOF, we have hereunto set hand below:	and signed on the date indicated
Marc Holness	Date: <u>04897012</u>
Gerald Smallegange	Date:
Brett Caldwell	Date:

1

ASSIGNMENT

WHEREAS, Marc Holness, Gerald Smallegange, and Brett Caldwell (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 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.

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

	Date:
Marc Holness	C - 1 4 2012
Gerald Smallegange	Date: <u>Sept 4, 2012</u>
	Date:
Brett Caldwell	

PATENT REEL: 028909 FRAME: 0507

PATENT

P.04/04

Attorney Docket No.: 10.2108

ASSIGNMENT

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PROTECTION SYSTEMS AND METHODS FOR HANDLING MULTIPLE FAULTS AND ISOLATED NODES IN INTERCONNECTED RING NETWORKS

for which U.S. Patent Application No. 13/605,518 was filed on 09/06/2012

WHEREAS, CIENA CORPORATION, 7035 Ridge Road, Hanover, Maryland 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:

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

10/40/20	Date:
Marc Holness	
	Date:
Gerald Smallegange	,
	Date: 40, 37/12
Brett Caldwell	— J

TOTAL P.04