502935290 08/14/2014

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT2981888

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
RAGHUNATH KALAVAI	08/14/2014

#### **RECEIVING PARTY DATA**

Name:	IKANOS COMMUNICATIONS, INC.	
Street Address:	47669 FREMONT BOULEVARD	
City:	FREMONT	
State/Country:	CALIFORNIA	
Postal Code:	94538	

#### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	14341538

#### **CORRESPONDENCE DATA**

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ATTORNEY DOCKET NUMBER:	079142-0433182
NAME OF SUBMITTER:	MARK J. DANIELSON
SIGNATURE:	/Mark J. Danielson/
DATE SIGNED:	08/14/2014

#### **Total Attachments: 2**

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PATENT 502935290 REEL: 033536 FRAME: 0400

### ASSIGNMENT OF INVENTION

For good and valuable consideration, the receipt of which is hereby acknowledged,

ASSIGNOR:

Raghunath KALAVAI

hereby sells, assigns and transfers to

ASSIGNEE:

IKANOS COMMUNICATIONS, INC.

47669 Fremont Boulevard Fremont, California 94538

State of Incorporation: Delaware

and the successors, assigns and legal representatives of the ASSIGNEE, the full and exclusive right, title and interest, in the United States and all foreign countries, to each invention as described in the application entitled:

# METHOD AND APPARATUS FOR DETECTING AND LOCATING LOOP IMPAIRMENTS

which application was filed in the U.S. Patent Office on July 25, 2014 as U.S. Application No. 14/341,538, and in and to said application and all U.S. and foreign Letters Patent to be obtained for said invention by the above application and to all U.S., international and foreign applications based thereon or counterparts thereof including any and all continuations, divisions, reissues and substitutes thereof, together with the right of priority under the Patent Cooperation Treaty, the Paris Convention and any other international agreements to which the United States of America adheres.

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

ASSIGNOR further covenants and agrees that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said

application, said invention and said Letters Patent and said U.S. and foreign equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

Date:

8/14/14

Kaylın Kalevii

Signature of Raghunath KALAVA

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Assignment of Invention for Serial No. 14/341,538