

## PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT								
NATURE OF CONVEYANCE:	ASSIGNMENT								
CONVEYING PARTY DATA									
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>LAURENT F. ALLOIN</td> <td>12/12/2013</td> </tr> <tr> <td>LAURENT PIERRUGUES</td> <td>12/12/2013</td> </tr> <tr> <td>MING GU</td> <td>12/12/2013</td> </tr> </tbody> </table>		Name	Execution Date	LAURENT F. ALLOIN	12/12/2013	LAURENT PIERRUGUES	12/12/2013	MING GU	12/12/2013
Name	Execution Date								
LAURENT F. ALLOIN	12/12/2013								
LAURENT PIERRUGUES	12/12/2013								
MING GU	12/12/2013								
RECEIVING PARTY DATA									
Name:	IKANOS COMMUNICATIONS, INC.								
Street Address:	47669 FREMONT BOULEVARD								
City:	FREMONT								
State/Country:	CALIFORNIA								
Postal Code:	94538								
PROPERTY NUMBERS Total: 1									
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>14054552</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	14054552				
Property Type	Number								
Application Number:	14054552								
CORRESPONDENCE DATA									
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ATTORNEY DOCKET NUMBER:	079142-0425410								
NAME OF SUBMITTER:	MARK J. DANIELSON								
Signature:	/Mark J. Danielson/								

Date:

01/09/2014

Total Attachments: 2

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**ASSIGNMENT OF INVENTION**

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

**ASSIGNOR:** **Laurent F. ALLOIN**  
**Laurent PIERRUGUES**  
**Ming GU**

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:

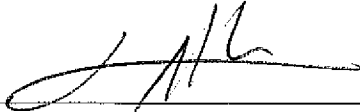
**METHOD AND APPARATUS FOR DETECTING AND ANALYZING NOISE AND OTHER EVENTS AFFECTING A COMMUNICATION SYSTEM**

which application was filed in the U.S. Patent Office on **October 15, 2013** as U.S. Application No. **14/054,552**, 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.

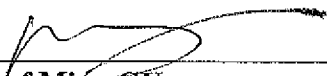
ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

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: 12/12/2013   
Signature of Laurent F. ALLOIN

Date: 12/12/13   
Signature of Laurent PIERRUGUES

Date: 12/12/13   
Signature of Ming GU