

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>SIGURD SCHELSTRAETE</td> <td>10/09/2013</td> </tr> <tr> <td>QASEM ALDRUBI</td> <td>10/08/2013</td> </tr> <tr> <td>HOSSEIN DEHGHAN-FARD</td> <td>10/17/2013</td> </tr> </tbody> </table>		Name	Execution Date	SIGURD SCHELSTRAETE	10/09/2013	QASEM ALDRUBI	10/08/2013	HOSSEIN DEHGHAN-FARD	10/17/2013
Name	Execution Date								
SIGURD SCHELSTRAETE	10/09/2013								
QASEM ALDRUBI	10/08/2013								
HOSSEIN DEHGHAN-FARD	10/17/2013								
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>13705131</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13705131				
Property Type	Number								
Application Number:	13705131								
CORRESPONDENCE DATA									
Fax Number:	(650)233-4545								
Phone:	650.233.4777								
Email:	ariana.sanchez@pillsburylaw.com								
<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>									
Correspondent Name:	MARK J. DANIELSON								
Address Line 1:	PILLSBURY WINTHROP SHAW PITTMAN LLP								
Address Line 2:	2550 HANOVER STREET								
Address Line 4:	PALO ALTO, CALIFORNIA 94304								
ATTORNEY DOCKET NUMBER:	079142-0419553								
NAME OF SUBMITTER:	MARK J. DANIELSON								
Signature:	/Mark J. Danielson/								

Date:

10/21/2013

Total Attachments: 6

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ASSIGNMENT OF INVENTION

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

ASSIGNOR: **Sigurd SCHELSTRAETE**
Qasem ALDRUBI
Hossein DEGHAN-FARD

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 OPTIMIZING DYNAMIC RANGE IN DMT
MODEMS**

which application was filed in the U.S. Patent Office on **December 4, 2012** as U.S. Application No. **13/705,131**, 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.

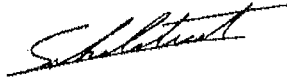
ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

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.

Attorney Docket No. 079142-0419553
Client Reference No. VELCP092-C

PATENT

Date: 10/9/2013



Signature of Sigurd SCHELSTRAETE

Date: _____

Signature of Qasem ALDRUBI

Date: _____

Signature of Hossein DEGHAN-FARD

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Attorney Docket No. 079142-0419553
Client Reference No. VELCP092-C

PATENT

Date: _____

Signature of Sigurd SCHELSTRAETE

Date: 10/8/13



Signature of Qasem ALDRUBI

Date: _____

Signature of Hossein DEGHAN-FARD

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Signature of Sigurd SCHELSTRAETE

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Signature of Qasem ALDRUBI

Date: 10/17/2013

Signature of Hossein DEGHAN-FARD