

## PATENT ASSIGNMENT

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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>Robert Brunner</td> <td>09/05/2012</td> </tr> <tr> <td>Qing Xu</td> <td>09/05/2012</td> </tr> <tr> <td>Stephane Lessard</td> <td>09/04/2012</td> </tr> </tbody> </table>		Name	Execution Date	Robert Brunner	09/05/2012	Qing Xu	09/05/2012	Stephane Lessard	09/04/2012
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Stephane Lessard	09/04/2012								
RECEIVING PARTY DATA									
<table border="1"> <tr> <td>Name:</td> <td>Telefonaktiebolaget LM Ericsson (publ)</td> </tr> <tr> <td>Street Address:</td> <td>S-164 83</td> </tr> <tr> <td>City:</td> <td>Stockholm</td> </tr> <tr> <td>State/Country:</td> <td>SWEDEN</td> </tr> </table>		Name:	Telefonaktiebolaget LM Ericsson (publ)	Street Address:	S-164 83	City:	Stockholm	State/Country:	SWEDEN
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PROPERTY NUMBERS Total: 1									
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CORRESPONDENCE DATA									
<p>Fax Number:  <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 9199483390        Email: official@mbhiplaw.com        Correspondent Name: Murphy, Bilak &amp; Homiller/Ericsson        Address Line 1: 8000 Regency Parkway, Suite 415        Address Line 4: Cary, NORTH CAROLINA 27518</p>									
ATTORNEY DOCKET NUMBER:	1009-0252 / P37519 US1								
NAME OF SUBMITTER:	Mark R. Bilak								
<p>Total Attachments: 6        source=P37519_2012-10-15_Assignment#page1.tif        source=P37519_2012-10-15_Assignment#page2.tif        source=P37519_2012-10-15_Assignment#page3.tif        source=P37519_2012-10-15_Assignment#page4.tif        source=P37519_2012-10-15_Assignment#page5.tif        source=P37519_2012-10-15_Assignment#page6.tif</p>									

CH \$40.00 13591359

## ASSIGNMENT

This Assignment is made by:

**Robert Brunner**

**8048 Querbes Ave.,  
Montreal, Quebec,  
H3N 2C1 Canada**

**Qing Xu**

**2320 Avenue Madison, Apt. 103,  
Montreal, Quebec,  
H4B 2T6, Canada**

**Stephane Lessard**

**8300 de la Luzerne,  
Mirabel, Quebec,  
J7N 1V2, Canada**

(hereinafter referred to as "Assignor(s)") in favor, and for the benefit and behoof of, Telefonaktiebolaget L M Ericsson (publ), a corporation duly organized under and pursuant to the laws of Sweden and having its principal place of business at S-164 83 Stockholm, Sweden (hereinafter referred to as "Assignee").

For good, sufficient and adequate consideration, the receipt of which is hereby acknowledged, the Assignor(s) have, as of the Effective Date, sold, assigned, transferred, and set over, and by these presents, and to the extent any transferable or assignable rights still remain with the inventor, do hereby sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns the entire right, title, and interest in and to the following inventions, application(s) for Letters Patent, and any and all Letters Patent or Patents in all countries and pursuant to all multilateral treaty organizations, including Sweden, the United States of America, the Patent Cooperation Treaty and European Patent Convention, that may be granted therefor and thereon, and in and to any and all divisions, continuations, continuations-in-part, conversions and utility models of said application(s), and reissues and extensions of said Letters Patent or Patents, the same to be held and enjoyed by the Assignee, for its use and behoof and the use and the behoof of its successors, legal representatives, and assigns, to the full end of the term or terms for which Letters Patent, Patents and Utility Models may be granted as fully and entirely as the same would have been held and enjoyed by the Assignor(s) had this sale and assignment not been made:

### RADIATION SCRIBED WAVEGUIDE COUPLING FOR PHOTONIC CIRCUITS

including, but not limited to, the application(s) for Letters Patent and Utility Model filed in:

Country	Application No.	File Date
US	13/591,359	August 22, 2012

The Effective date is the earliest date of the above listed Filing Date(s).

## ASSIGNMENT

Assignor(s) hereby authorize and request Assignee's Attorneys to insert the serial number and filing date of said application(s) for Letter Patent or Utility Model, when known. The assignment of the above mentioned rights includes a transfer of the whole right to use a priority (including priority according to any convention, multilateral agreement, bilateral agreement and national law) of the above mentioned application(s) for Letter Patent and Utility Model in all countries and multilateral treaty organizations wherein no residual rights shall remain with the Assignor(s). Assignor(s) hereby request that said Letters Patent, Patent or Utility Model be issued to Assignee as the Assignee of said inventions, the Letters Patent, Patent or Utility Model to be issued for the sole use and behoof of the Assignee, its successors, legal representatives, and assigns. Assignee alone hereinafter has the entire disposal of the invention and possesses entire ownership to any domestic and foreign patents or utility models granted thereafter. The rights granted hereunder shall include all rights to institute legal actions, obtain remedies and recover and retain damages in respect to said Letters Patent, Patent or Utility Model.

The Assignor(s) and Assignee hereby understand and agree that with the execution of this Assignment, to the extent necessary or appropriate, national and/or regional applications may be filed by the Assignee as the applicant and on behalf of the assignor.

To the extent Assignee is entitled to receive the rights hereunder pursuant to this Assignment, each of the Assignor(s) hereby covenants and agrees to and with the Assignee, its successors, legal representatives, and assigns, that, at the time of the Effective Date, the Assignor(s) were the sole and lawful owners of the entire right, title, and interest in and to the inventions and application(s) for Letters Patent or Utility Models above-mentioned, and that the same are unencumbered, and that the Assignor(s) have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

Further, and for the same consideration, the Assignor(s) hereby covenant(s) and agree(s) to and with the Assignee, its successors, legal representatives, and assigns that the Assignor(s) will, whenever counsel of the Assignee, or the counsel of its successors, legal representatives, and assigns, shall advise that any proceeding in connection with said inventions or said application(s) for Letters Patent, or any proceeding in connection with Letters Patent or Utility Model for said inventions, in any country and any multilateral treaty organization, including interference proceedings, is lawful and desirable, or that any division, continuation, continuation-in-part, conversion or Utility Model of any application(s) for Letters Patent or Utility Model, or any reissue or extension of any Letters Patent to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement, and defense of Letters Patent or Utility Model for said inventions, without charge to Assignee, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns. If any of the Assignor(s) is prevented by any obstacles from signing said documents in person, this Assignment shall be valid as a Power of Attorney for the Assignee to sign these documents on behalf of any such Assignor(s) or, in the event of the death of the latter, the estate thereof.

## ASSIGNMENT

This Assignment shall be governed by and construed under, and any dispute, controversy or claim related hereto shall be decided in accordance with, the laws of:

SWEDEN

without regard to the conflicts of laws provisions thereof. Any dispute, controversy or claim arising under, out of or relating to this Assignment and any subsequent amendments of this Assignment, including, without limitation, its formation, validity, binding effect, interpretation, performance, breach or termination, as well as non-contractual claims, shall be referred to and finally determined by arbitration in accordance with the WIPO Arbitration Rules. The arbitral tribunal shall consist of a sole arbitrator. The place of arbitration shall be in the country of the inventor's residence. The language to be used in the arbitral proceedings shall be English.

No modifications shall be made to this Assignment unless in writing and signed by each of the Assignor(s) and Assignee. If any of the provisions of this Assignment shall be deemed invalid or unenforceable, then the entire Assignment shall be construed as if not containing the particular invalid or unenforceable provision or provisions, and the rights and obligations of Assignee and Assignor(s) shall be construed and enforced accordingly. Assignee's failure to exercise any option made available as a result hereof, shall not be construed as a waiver of such provisions, rights, or options, or affect the validity of this Assignment. Assignor covenants and agrees that it will not take any actions in violation of this Assignment.

Subsequent assignment from any of the assignors to the assignee purporting to convey the subject matter specified herein for a particular country, patent office, or jurisdiction shall not invalidate any provision of this assignment and any such subsequent assignment shall act as a further confirmation of the assignment herein.


Date 2012-09-10.....

Signature on behalf of  
Assignee

  
.....  
Alex Nicolaescu

# ASSIGNMENT

TITLE: RADIATION SCRIBED WAVEGUIDE COUPLING FOR PHOTONIC CIRCUITS

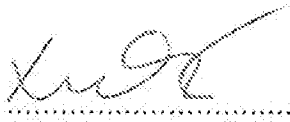
Date 2012/09/05 Signature of Assignor   
Robert Brunner

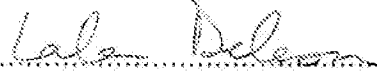
Date 2012/09/05 Witnessed by Lala Deleon  
Name: LALA DELEON  
Address: 4675 TRENHOLME  
MONTREAL, QC  
CANADA H4B 1X8

Date 2012/09/05 Witnessed by   
Name: Mary Lee  
Address: 3216 Noardwyn St.  
Saint-Laurent, Quebec  
Canada, H4R 1A7

# ASSIGNMENT

TITLE: RADIATION SCRIBED WAVEGUIDE COUPLING FOR PHOTONIC CIRCUITS

Date 2012/09/05 Signature of Assignor   
 Qing Xu

Date 2012/09/05 Witnessed by   
 Name: LALA DELEON  
 Address: 4635 TRENHOLME  
MONTREAL, QC  
CANADA H4B 1X8

Date 2012/09/05 Witnessed by   
 Name: Mary Lee  
 Address: 3216 Noorduyn St.  
Saint-Laurent, Quebec  
Canada, H4R 1A7

# ASSIGNMENT

TITLE: RADIATION SCRIBED WAVEGUIDE COUPLING FOR PHOTONIC CIRCUITS

Date 2012/09/04 ..... Signature of Assignor .....  
Stephane Lessard



Date 2012/09/04 ..... Witnessed by .....  
Name: Ayda Khatami .....  
Address: 2555 Benny Ave. .....  
APP\*104 Montreal, QC .....  
CANADA H4B 2R6 .....

Date 2012/09/04 ..... Witnessed by .....  
Name: LALA DELEON .....  
Address: 4635 TRENHOLME .....  
MONTREAL, QC .....  
CANADA H4B 1X8 .....