

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT3766416

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	SECURITY INTEREST
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
ENABLENCE USA COMPONENTS INC.	02/29/2016
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	EXPORT DEVELOPMENT CANADA
<b>Street Address:</b>	150 SLATER STREET
<b>City:</b>	OTTAWA
<b>State/Country:</b>	CANADA
<b>Postal Code:</b>	K1A 1K3
<b>PROPERTY NUMBERS Total: 9</b>	
<b>Property Type</b>	<b>Number</b>
Patent Number:	7840104
Patent Number:	6654533
Patent Number:	8126300
Patent Number:	6650809
Patent Number:	7304797
Patent Number:	7229222
Patent Number:	6804440
Patent Number:	6870987
Patent Number:	7008551
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(416)216-3930
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Phone:</b>	4162026739
<b>Email:</b>	lorelei.graham@nortonrosefulbright.com
<b>Correspondent Name:</b>	LORELEI G. GRAHAM
<b>Address Line 1:</b>	RESEARCH PARK CENTRE, 150 RESEARCH LANE
<b>Address Line 2:</b>	SUITE 205
<b>Address Line 4:</b>	GUELPH, CANADA N1G 4T2
<b>ATTORNEY DOCKET NUMBER:</b>	00260670-0062
<b>NAME OF SUBMITTER:</b>	LORELEI G. GRAHAM

PATENT

<b>SIGNATURE:</b>	/Lorelei G. Graham/
<b>DATE SIGNED:</b>	03/03/2016
<b>Total Attachments: 4</b> source=GRANTOFSECURITYINTERESTINPATENTRIGHTS#page1.tif source=GRANTOFSECURITYINTERESTINPATENTRIGHTS#page2.tif source=GRANTOFSECURITYINTERESTINPATENTRIGHTS#page3.tif source=GRANTOFSECURITYINTERESTINPATENTRIGHTS#page4.tif	



**GRANT OF SECURITY INTEREST IN  
PATENT RIGHTS**

This GRANT OF SECURITY INTEREST IN PATENT RIGHTS ("Agreement"), effective as of February 29, 2016 is made by ENABLENCE USA COMPONENTS INC., a Delaware corporation ("Grantor"), and EXPORT DEVELOPMENT CANADA ("Secured Party").

Grantor has executed and delivered a Security Agreement, dated as of February 29, 2016 in favor of Secured Party (as amended, supplemented or otherwise modified from time to time, the "Security Agreement"). Grantor has pledged and granted to Secured Party a continuing security interest in all Intellectual Property, including the Patents.

**NOW THEREFORE**, for good and valuable consideration, the receipt of which is hereby acknowledged, Grantor agrees, for the benefit of Secured Party, as follows:

1. **Definitions.** Unless otherwise defined herein or the context otherwise requires, terms used in this Agreement have the meanings provided or provided by reference in the Security Agreement or Loan Agreement referred to therein.

2. **Grant of Security Interest.** Grantor hereby pledges and grants a continuing security interest in, all of Grantor's right, title and interest in, to and under the Patents described on Schedule A hereto (collectively, the "Collateral"), to Secured Party to secure payment, performance and observance of the Secured Obligations.

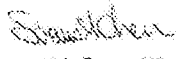
3. **Purpose.** This Agreement has been executed and delivered by Grantor for the purpose of recording the grant of security interest herein with the United States Patent and Trademark Office. The security interest granted hereby has been granted to Secured Party in connection with the Security Agreement and is expressly subject to the terms and conditions thereof. The Security Agreement (and all rights and remedies of Secured Party thereunder) shall remain in full force and effect in accordance with its terms.

4. **Acknowledgment.** Grantor does hereby further acknowledge and affirm that the rights and remedies of Secured Party with respect to the security interest in the Collateral granted hereby are more fully set forth in the Loan Agreement and the Security Agreement, the terms and provisions of which (including the remedies provided for therein) are incorporated by reference herein as if fully set forth herein. In the event of any conflict between the terms of this Agreement and the terms of the Security Agreement, the terms of the Security Agreement shall govern.

5. **Counterparts.** This Agreement may be executed in counterparts, each of which shall be deemed an original, but all of which together constitute one and the same original.

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be duly executed and delivered by their respective officers thereunto duly authorized as of the day and year first above written.

**ENABLENCE USA COMPONENTS INC.**

By:  Digitally signed by Evan Chen  
DN: cn=Evan Chen, o=EN  
enableusacomponents@gmail.com, c=US  
Date: 2016.07.29 17:31:26 -0700  
Name: Yifan (Evan) Chen  
Title: President

**EXPORT DEVELOPMENT CANADA**

By: \_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_

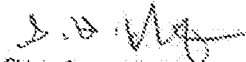
By: \_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_


IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be duly executed and delivered by their respective officers thereunto duly authorized as of the day and year first above written.

**ENABLENCE USA COMPONENTS INC.**

By: \_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_

**EXPORT DEVELOPMENT CANADA**

By:  \_\_\_\_\_  
Name: **Stephen Hebert**  
Title: **Senior Financing Manager**

By:  \_\_\_\_\_  
Name: **Pierre Trudel**  
Title: **Senior Financing Manager**

**SCHEDULE A**

**U.S. PATENT REGISTRATIONS AND APPLICATIONS AND U.S. EXCLUSIVE  
PATENT LICENSES**

**Patents and Patent Licenses**

Owner listed in USPTO 15 MAY 2013	Patent Number	Patent Application Number	Date Patent Issued	Date Patent Applied	Title
Enablence USA Components Inc.	7,840,104 B2	11/827,855	Nov 23, 2010	Jul. 13, 2007	"Ultra-wide Band AWG Multiplexer"
Enablence Inc.	6,654,533	09/669,765	Nov 25, 2003	Sep. 26, 2000	"Polarization Independent Waveguide Structure"
Enablence Inc.	8,126,300	12/486,002	Feb 28, 2012	Jun. 17, 2009	"Segmented Waveguide Structure"
Enablence Inc.	6,650,809	09/809,162	Nov 18, 2003	Mar. 16, 2001	"Multiple Band Optical Multiplexer and Demultiplexer"
Enablence Inc.	7,304,797	11/143,800	Dec 4, 2007	Jun. 3, 2005	"Inputs and Outputs for an Optical Multiplexer/Demultip lexer Utilizing the Grating Facet Diffraction Envelope"
Enablence Technologies USA Inc.	7,229,222	11/190,155	June 12, 2007	Jul. 26, 2005	"Package Sealing Means and Photonic Device Packages So Formed"
Enablence Inc.	6,804,440	10/314,431	Oct 21, 2004	Dec. 7, 2002	INTEGRATED MODE CONVERTER, WAVEGUIDE, AND ON-CHIP FUNCTION
Enablence Inc.	6,870,987	10/310,570	Mar 22, 2005	Dec. 5, 2002	"Embedded Mode Converter"
Enablence USA Components Inc.	7,008,551	10/427,558	Mar 7, 2006	Apr. 30, 2003	"Low Loss Optical Waveguide Device"

**PATENT**