504059502 10/20/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4106168

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Christoph Friese	12/13/2013

RECEIVING PARTY DATA

Name:	HEPTAGON MICRO OPTICS PTE. LTD.	
Street Address:	26 WOODLANDS LOOP	
City:	SINGAPORE	
State/Country:	SINGAPORE	
Postal Code:	738317	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15036363

CORRESPONDENCE DATA

Fax Number: (877)769-7945

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.

(212) 765-5070 Phone: Email: apsi@fr.com

Correspondent Name: SAMUEL BORODACH Address Line 1: FISH & RICHARDSON P.C.

Address Line 2: P.O.BOX 1022

Address Line 4: MINNEAPOLIS, MINNESOTA 55440-1022

ATTORNEY DOCKET NUMBER:	31026-0076US1	
NAME OF SUBMITTER:	CAROL TYRRELL	
SIGNATURE:	/Carol Tyrrell/	
DATE SIGNED:	10/20/2016	

Total Attachments: 2

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> **PATENT REEL: 040077 FRAME: 0110** 504059502

Attorney's Docket No.: 31026-0076P01 / 2013-38

ASSIGNMENT

For valuable consideration, the receipt and sufficiency of which is acknowledged, I, <u>CHRISTOPH FRIESE</u> of <u>Birmensdorf</u>, <u>Switzerland</u>, hereby assign to <u>Heptagon Micro Optics Pte</u>. <u>Ltd.</u>, a corporation of <u>Singapore</u> having a place of business at:

26 Woodlands Loop Singapore, SG 738317

and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent entitled MODULES HAVING MULTIPLE OPTICAL CHANNELS INCLUDING OPTICAL ELEMENTS AT DIFFERENT HEIGHTS ABOVE THE OPTOELECTRONIC DEVICES, filed on December 9, 2013, and assigned U.S. Serial Number 61/913,679, this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and I authorize the Assignee to apply in all countries in my name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and I agree for me and my respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

> PATENT REEL: 040077 FRAME: 0111

Attorney's Docket No.: 31026-0076P01 / 2013-38

Date: 13-Dec - 2013 Cupictopu coicoc

Witnessed by: John Surrain

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