01/31/2017 504206270

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4252947

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
YONGHONG GUO	01/26/2017
JAY A. SKIDMORE	01/26/2017
XIA HONG	01/26/2017
JOHN MARTINHO	01/31/2017
HUIJIE XU	01/26/2017
LIHUA WANG	01/27/2017
YAOGENG DING	01/26/2017
NICOLAS GUERIN	01/26/2017

RECEIVING PARTY DATA

Name:	LUMENTUM OPERATIONS LLC
Street Address:	400 NORTH MCCARTHY BLVD
City:	MILPITAS
State/Country:	CALIFORNIA
Postal Code:	95035

PROPERTY NUMBERS Total: 2

Property Type	Number
Application Number:	62290721
Application Number:	15421210

CORRESPONDENCE DATA

Fax Number: (571)432-0800

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.

Phone: 5714320800

Email: neways@harrityllp.com **Correspondent Name:** HARRITY & HARRITY LLP Address Line 1: 11350 RANDOM HILLS ROAD

Address Line 2: SUITE 600

Address Line 4: FAIRFAX, VIRGINIA 22030

ATTORNEY DOCKET NUMBER:	0100-0106
NAME OF SUBMITTER:	DANIEL M. JEBSEN

PAIENI REEL: 041138 FRAME: 0642 504206270

SIGNATURE:	/Daniel M. Jebsen, Reg. No. 71,711/	
DATE SIGNED:	01/31/2017	
Total Attachments: 8		
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PATENT REEL: 041138 FRAME: 0643

Attorney's Docket No. 0100-0106



THIS ASSIGNMENT, by Yonghong GUO, Jay. A. SKIDMORE, Xia HONG, John MARTINHO, Huijie XU, Lihua WANG, Yaogeng DING, and Nicolas GUERIN, having offices at 400 North McCarthy Boulevard Milpitas CA, 95035 US, 400 North McCarthy Boulevard Milpitas CA, 95035 US, 400 North McCarthy Boulevard Milpitas CA, 95035 US, 61 Bill Leathern Drive, Ottawa, Ontario K2J OP7 CA, 400 North McCarthy Boulevard Milpitas CA, 95035 US, 400 North McCarthy Boulevard Milpitas CA, 95035 US, 400 North McCarthy Boulevard Milpitas CA, 95035 US, and 400 North McCarthy Boulevard Milpitas CA, 95035 US, (hereinafter referred to as "the Assignors"), respectively, witnesseth:

WHEREAS, the Assignors have invented certain new and useful improvements in <u>FIBER COUPLED</u>

<u>LASER SOURCE PUMP WITH WAVELENGTH DIVISION MULTIPLEXER</u> set forth in an application for Letters Patent of the United States,

(1)	(a) filed herewith; or (b) bearing Application No	, and filed on	_; or
(2)	which is a non-provisional application (a) bearing Application No. 15/42 (b) liled herewith; and	21,210 , and filed on 01/31/2017	; or

We hereby authorize Applicants' representative to fill in the preceding information relating to the filing date and/or serial number, as appropriate.

WHEREAS, Lumentum Operations LLC, a corporation duly organized under and pursuant to the laws of Delaware and having its principal place of business at 400 North McCarthy Blvd, Milpitas, CA 95035 US (hereinafter referred to as "the Assignee"), is desirous of acquiring the entire right, title, and interest in and to said inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications, including any previously or subsequently filed provisional applications, for Letters Patent of the United States or other countries claiming priority to said application or from which said application claims priority, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon.

NOW, THEREFORE, be it known that for good and sufficient consideration, the receipt of which is hereby acknowledged, the Assignors have sold, assigned, transferred, and set over, and by these presents do 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 above-mentioned inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications for Letters Patent of the United States or other countries claiming priority to said applications, and any and all Letters Patent or Patents of the United States of America and all foreign countries that may be granted therefor and thereon, and in and to any and all applications claiming priority to said applications, provisional applications, divisions, continuations, and continuations-in-part of said applications, and reissues and extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by the Assignee, for its own use and behalf and the use and behalf of its successors, legal representatives, and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted as fully and entirely as the same would have been held and enjoyed by the Assignors had this sale and assignment not been made;

AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, the Assignors are the sole and lawful owners of the entire right, title, and interest in and to the inventions set forth in said applications and said applications, including provisional applications, above-mentioned, and that the same are unencumbered, and that the Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth;

Joint Assignment Attorney's Docket No.: 0100-0106

AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns that the Assignors 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 applications for Letters Patent or Patents, or any proceeding in connection with Letters Patent or Patents for said inventions in any country, including interference proceedings, is lawful and desirable, or that any application claiming priority to said application, division, continuation, or continuation-in-part of any applications for Letters Patent or Patents, or any reissue or extension of any Letters Patent or Patents 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 Patents for said inventions, without charge to the Assignee, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns,

AND the Assignors hereby request the Commissioner of Parents to issue any and all said Letters Patent of the United States to the Assignee as the Assignee of said inventions, the Letters Patent to be issued for the sole use and behalf of the Assignee, its successors, legal representatives, and assigns.

	0 -
Yonghong GUO	Witness Signature
Date: 1/26/17	Allen Heich Witness Name
Jay A. SKIDMORE Date: 1/26/17	Witness Signature Prasad Jalamanchili Witness Name
Xia HONG Date: 0//26/25/7	Witness Signature Prasad Talamanchili Witness Name
John MARTINHO	Witness Signature
Date:	Witness Name
Huijie XU	Witness Signature
Date:	Witness Signature Laurie Scheffel

Lihua WANG

Date: 1/27/2017

Yaogeng DING

Date: 1/26/2017

Nicolas OPERIN

Date: 1126/2017

Witness Signature

Janforcet Singh Witness Name

Witness Signature

Witness Signature

DANIEL ZOU

Witness Name

ASSIGNMENT (Joint) Worldwide Rights

THIS ASSIGNMENT, by Yonghong GUO, Jay. A. SKIDMORE, Xia HONG, John MARTINHO, Huijie XU, Lihua WANG, Yaogeng DING, and Nicolas GUERIN, having offices at 400 North McCarthy Boulevard Milpitas CA, 95035 US, 400 North McCarthy Boulevard Milpitas CA, 95035 US, 400 North McCarthy Boulevard Milpitas CA, 95035 US, 61 Bill Leathem Drive, Ottawa, Ontario K2J OP7 CA, 400 North McCarthy Boulevard Milpitas CA, 95035 US, 400 North McCarthy Boulevard Milpitas CA, 95035 US, 400 North McCarthy Boulevard Milpitas CA, 95035 US, and 400 North McCarthy Boulevard Milpitas CA, 95035 US, (hereinafter referred to as "the Assignors"), respectively, witnesseth:

WHEREAS, the Assignors have invented certain new and useful improvements in <u>FIBER COUPLED LASER SOURCE PUMP WITH WAVELENGTH DIVISION MULTIPLEXER</u> set forth in an application for Letters Patent of the United States,

(1)	which is a provisional application (a) filed herewith; or (b) bearing Application No	, and filed on; or
(2)	which is a non-provisional application (a) bearing Application No. 15/42 (b) filed herewith; and	1,210 , and filed on <u>01/31/2017</u> ; or

We hereby authorize Applicants' representative to fill in the preceding information relating to the filing date and/or serial number, as appropriate.

WHEREAS, <u>Lumentum Operations LLC</u>, a corporation duly organized under and pursuant to the laws of <u>Delaware</u> and having its principal place of business at <u>400 North McCarthy Blvd</u>, <u>Milpitas</u>, <u>CA 95035 US</u> (hereinafter referred to as "the Assignee"), is desirous of acquiring the entire right, title, and interest in and to said inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications, including any previously or subsequently filed provisional applications, for Letters Patent of the United States or other countries claiming priority to said application or from which said application claims priority, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon.

NOW, THEREFORE, be it known that for good and sufficient consideration, the receipt of which is hereby acknowledged, the Assignors have sold, assigned, transferred, and set over, and by these presents do 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 above-mentioned inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications for Letters Patent of the United States or other countries claiming priority to said applications, and any and all Letters Patent or Patents of the United States of America and all foreign countries that may be granted therefor and thereon, and in and to any and all applications claiming priority to said applications, provisional applications, divisions, continuations, and continuations-in-part of said applications, and reissues and extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by the Assignee, for its own use and behalf and the use and behalf of its successors, legal representatives, and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted as fully and entirely as the same would have been held and enjoyed by the Assignors had this sale and assignment not been made;

AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, the Assignors are the sole and lawful owners of the entire right, title, and interest in and to the inventions set forth in said applications and said applications, including provisional applications, above-mentioned, and that the same are unencumbered, and that the Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth;

Joint Assignment Attorney's Docket No.: 0100-0106

AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns that the Assignors 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 applications for Letters Patent or Patents, or any proceeding in connection with Letters Patent or Patents for said inventions in any country, including interference proceedings, is lawful and desirable, or that any application claiming priority to said application, division, continuation, or continuation-in-part of any applications for Letters Patent or Patents, or any reissue or extension of any Letters Patent or Patents 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 Patents for said inventions, without charge to the Assignee, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns;

AND the Assignors hereby request the Commissioner of Patents to issue any and all said Letters Patent of the United States to the Assignee as the Assignee of said inventions, the Letters Patent to be issued for the sole use and behalf of the Assignee, its successors, legal representatives, and assigns.

Yonghong GUO	Witness Signature
Date:	Witness Name
Jay A. SKIDMORE	Witness Signature
Date:	Witness Name
Xia HONG	Witness Signature
Date:	Witness Name
John MARTINHO Date: JAN/31/2017	Witness Signature
Date: <u>JAN/31/201</u> 7	Witness Name
Huijie XU	Witness Signature
Date:	Witness Name

Lihua WANG	Witness Signature
Date:	Witness Name
Yaogeng DING	Witness Signature
Date:	Witness Name
Nicolas GUERIN	Witness Signature
Date:	Witness Name