

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
DOMENICO DI MOLA	08/07/2020
STEVEN B. ALLESTON	08/10/2020
ZHEN QU	08/05/2020
RYAN HOLMES	08/05/2020
CHUL SOO PARK	08/05/2020
YANG YUE	08/07/2020
JOHN J. ANDERSON	08/06/2020
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	JUNIPER NETWORKS, INC.
<b>Street Address:</b>	1133 INNOVATION WAY
<b>City:</b>	SUNNYVALE
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	94089
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	17470650
<b>CORRESPONDENCE DATA</b>	
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<b>ATTORNEY DOCKET NUMBER:</b>	4213.121US2
<b>NAME OF SUBMITTER:</b>	BETH MOON
<b>SIGNATURE:</b>	/Beth Moon/
<b>DATE SIGNED:</b>	09/09/2021

**Total Attachments: 4**

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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of:  
Domenico Di Mola et al.

Application No.: 16/990,348

Confirmation No.: Unknown

Filed: August 11, 2020

For: **EXTERNAL LASER ENABLED CO-PACKAGED OPTICS ARCHITECTURES**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**DECLARATION AND ASSIGNMENT BY INVENTOR**  
**UNDER RULE 37 CFR §1.63 EFFECTIVE ON SEPTEMBER 16, 2012**

We, Domenico Di Mola of	<u>Morgan Hill</u> (city)	<u>California</u> (state or country)	
Steven B. Alleston of	<u>Los Gatos</u> (city)	<u>California</u> (state or country)	
Zhen Qu of	<u>Sunnyvale</u> (city)	<u>California</u> (state or country)	
Ryan Holmes of	<u>Nepean</u> (city)	<u>Canada</u> (state or country)	
Jeffrey J. Maki of	<u>Dublin</u> (city)	<u>California</u> (state or country)	
Chul Soo Park of	<u>Dublin</u> (city)	<u>California</u> (state or country)	
Yang Yue of	<u>Milpitas</u> (city)	<u>California</u> (state or country)	, and
Jon J. Anderson of	<u>San Jose</u> (city)	<u>California</u> (state or country)	, hereby declare that:

1. We believe we are the original joint inventors of a claimed invention in a patent application entitled:

**EXTERNAL LASER ENABLED CO-PACKAGED OPTICS ARCHITECTURES**

a patent application for which:

Inventor : Domenico Di Mola et al.  
Serial No. : 16/990,348  
Filed : August 11, 2020  
Page : 2 of 4

Docket No.: 4213.121US1  
Client Ref. No.: JNP3278-US

was filed at the U.S. Patent and Trademark Office on August 11, 2020, as Application Serial No. 16/990,348, and identified as Attorney Docket No. 4213.121US1.

2. We made, authorized to make, or will make or authorize to make, and hereby do make and authorize to make, the above-identified patent application at the U.S. Patent and Trademark Office.

3. We have reviewed and understand the contents of the above-identified patent application, including the claims.

4. We are aware of the duty to disclose to the U.S. Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR §1.56.

5. We hereby acknowledge that any willful false statement made in the above declaration is punishable under 18 USC §1001 by fine or imprisonment of not more than five (5) years, or both.

#### 6. ASSIGNMENT

We hereby assign to **Juniper Networks, Inc.**, a corporation of **Delaware, United States of America**, having a place of business at **1133 Innovation Way, Sunnyvale, California 94089**, and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest in an application for United States Patent, entitled **EXTERNAL LASER ENABLED CO-PACKAGED OPTICS ARCHITECTURES**, filed herewith, and assigned U.S. Serial Number 16/990,348 (the "Application"), together with the entire right, title, and interest throughout the world in any and all inventions and improvements which are described in the Application.

This assignment includes the entire right, title and interest in the Application, all legal equivalents and corresponding applications thereof in any country, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions and improvements, including, but not limited to, all patents, utility models, and design registrations, and certificates granted on all divisional, continuation (including continuation-in-part), reissue, and reexamination applications, any and all certificates and other documents issued in any post-grant proceeding, and extensions of said applications and patents of the United States, foreign patents, utility models, and design registrations, and the right to claim priority based on the filing date of the 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 the right to seek relief and recover all damages, including, but not limited to, a reasonable royalty, by reason of infringement or any other violation of patent or patent application rights. We authorize the Assignee to apply in all countries in our names or in the name of the Assignee for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements.

In addition, we hereby confirm the sale, assignment, and transfer to the Assignee of the entire right, title and interest throughout the world in said inventions and improvements that

Inventor : Domenico Di Mola et al.  
Serial No. : 16/990,348  
Filed : August 11, 2020  
Page : 3 of 4

Docket No.: 4213.121US1  
Client Ref. No.: JNP3278-US

occurred by operation of an employment agreement between us and the Assignee existing at the time said inventions and improvements were made. Should we have any remaining right, title or interest in or to said inventions and improvements anywhere in the world, we hereby sell, assign, and transfer such remaining right, title and interest to the Assignee.

The foregoing assignments, sale and transfer have been made for good and valuable consideration, the receipt of which is hereby acknowledged.

We hereby represent and covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into that would conflict with the assignment of said inventions and improvements to the Assignee.

We further covenant for ourselves and our respective heirs, legal representatives and assigns, to assist the Assignee in handling various procedures, tasks and documentation in connection with this assignment, including, but not limited to, providing to the Assignee promptly upon the request of the Assignee all pertinent facts and documents relating to said invention and improvements, and said patents, said legal equivalents or other legal instrument as may be known and accessible to me and testifying as to the same in any interference, litigation, or proceeding relating thereto, and promptly executing and delivering to the Assignee or its legal representative any and all papers, documents, instruments or affidavits in connection with obtaining, maintaining, issuing or enforcing said application, said inventions and improvements, and said patents, said equivalents and other legal instrument which may be necessary or desirable to carry out the purposes thereof.

7. We hereby authorize and request the Commissioner of Patents and Trademarks to issue one or more patents in the United States for said inventions and improvements to Juniper Networks, Inc. as assignee of the entire interest, for the sole use and benefit of Assignee, its successors and assigns.

8. We are competent to execute the above declaration and assignment. We hereby have duly executed the declaration and assignment below with our names.

Full name of inventor: Domenico Di Mola, Steven B. Alleston, Zhen Qu, Ryan Holmes, Jeffrey J. Maki, Chul Soo Park, Yang Yue, Jon J. Anderson

Inventor's signature: / \_\_\_\_\_ *d.m. mola* \_\_\_\_\_ /

Date: Aug 7, 2020

Inventor's signature: / \_\_\_\_\_ *Steven Alleston* \_\_\_\_\_ /

Date: Aug 10, 2020

Inventor : Domenico Di Mola et al.  
Serial No. : 16/990,348  
Filed : August 11, 2020  
Page : 4 of 4

Docket No.: 4213.121US1  
Client Ref. No.: JNP3278-US

Inventor's signature: / \_\_\_\_\_ *manola* \_\_\_\_\_ /

Date: Aug 5, 2020

Inventor's signature: / \_\_\_\_\_ *Ryan Holmes* \_\_\_\_\_ /

Date: Aug 5, 2020

Inventor's signature: / \_\_\_\_\_ \_\_\_\_\_ /

Date:

Inventor's signature: / \_\_\_\_\_ *chul soo Park* \_\_\_\_\_ /

Date: Aug 5, 2020

Inventor's signature: / \_\_\_\_\_ *Yang Yue* \_\_\_\_\_ /

Date: Aug 7, 2020

Inventor's signature: / \_\_\_\_\_ *Jon J. Anderson* \_\_\_\_\_ /

Date: Aug 6, 2020