

<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
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EPAS ID: PAT6339695

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
JOHN PARKER	10/05/2020
JONATHAN EDGAR ROTH	10/05/2020
GREGORY ALAN FISH	10/05/2020
<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>	17065118
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
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<b>ATTORNEY DOCKET NUMBER:</b>	4213.139US1
<b>NAME OF SUBMITTER:</b>	BETH MOON
<b>SIGNATURE:</b>	/Beth Moon/
<b>DATE SIGNED:</b>	10/07/2020
<b>Total Attachments: 3</b>	
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source=4213.139US1 Assignment#page3.tif	

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

In re Patent Application of:  
John Parker et al.

Application No.: 17/065,118

Confirmation No.: Unknown

Filed: October 7, 2020

For: HYBRID PHOTONIC RING MODULATORS

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, John Parker of Goleta California  
(city) (state or country)  
Jonathan Edgar Roth PhD of San Francisco California, and  
(city) (state or country)  
Gregory Alan Fish of Santa Barbara California, hereby declare that:  
(city) (state or country)

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

**HYBRID PHOTONIC RING MODULATORS**

a patent application for which:

was filed at the U.S. Patent and Trademark Office on October 7, 2020, as Application Serial No. 17/065,118, and identified as Attorney Docket No. 4213.139US1.

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 **HYBRID PHOTONIC RING MODULATORS**, filed herewith, and assigned U.S. Serial Number 17/065,118 (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 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

Inventor : John Parker et al.  
Serial No. : 17/065,118  
Filed : October 7, 2020  
Page : 3 of 3

Docket No.: 4213.139US1  
Client Ref. No.: JNP3342-US

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: John Parker, Jonathan Edgar Roth PhD, Gregory Alan Fish

Inventor's signature: / \_\_\_\_\_ *John Parker* \_\_\_\_\_ /

Date: Oct 5, 2020

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

Date: Oct 5, 2020

Inventor's signature: / \_\_\_\_\_ *Gregory Fish* \_\_\_\_\_ /

Date: Oct 5, 2020