

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT5748241

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
NICHOLAS ARCOLANO	10/01/2019
GLENN STEPHEN BARNETT	10/01/2019
PHILIP JOSEPH BRADEN	10/01/2019
DAVID JAMES GOURLEY	10/01/2019
MATTHEW PAUL KLEIN	10/01/2019
ANDREW MAN-HON LAU	10/01/2019
ALEXANDER STEPHEN METZGER	10/01/2019
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	ORTHOGONAL NETWORKS, INC.
<b>Street Address:</b>	15 COURT SQUARE
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<b>City:</b>	BOSTON
<b>State/Country:</b>	MASSACHUSETTS
<b>Postal Code:</b>	02108
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	16556507
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(617)646-8646
<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>	6176468000
<b>Email:</b>	patents_MattG@wolfgreenfield.com
<b>Correspondent Name:</b>	MATTHEW H. GRADY
<b>Address Line 1:</b>	WOLF, GREENFIELD & SACKS, P.C.
<b>Address Line 2:</b>	600 ATLANTIC AVENUE
<b>Address Line 4:</b>	BOSTON, MASSACHUSETTS 02210
<b>ATTORNEY DOCKET NUMBER:</b>	O0405.70000US02
<b>NAME OF SUBMITTER:</b>	KATHERINE ROLLINS
<b>SIGNATURE:</b>	/Katherine Rollins/

PATENT

<b>DATE SIGNED:</b>	10/01/2019
<b>Total Attachments: 8</b> source=O040570000US02-ASI-MHG#page1.tif source=O040570000US02-ASI-MHG#page2.tif source=O040570000US02-ASI-MHG#page3.tif source=O040570000US02-ASI-MHG#page4.tif source=O040570000US02-ASI-MHG#page5.tif source=O040570000US02-ASI-MHG#page6.tif source=O040570000US02-ASI-MHG#page7.tif source=O040570000US02-ASI-MHG#page8.tif	

## ASSIGNMENT

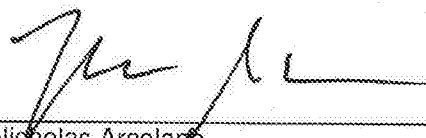
For good and valuable consideration, the receipt of which is hereby acknowledged, I, the undersigned Assignor, hereby:

1. Sell, assign and transfer to **Orthogonal Networks, Inc.**, a Delaware Corporation having a place of business at **15 Court Square, Suite 1050, Boston, Massachusetts 02108**, its successors, assigns and legal representatives, all hereinafter referred to as the Assignee, my entire right, title and interest for the United States and all foreign countries, in and to any and all inventions and designs which are disclosed in the patent application for United States Letters Patent filed in the United States Patent and Trademark Office on **August 30, 2019** under No. **16/556,507**, bearing Attorney Docket No. **00405.70000US02**, and entitled **SYSTEMS AND METHODS FOR OPTIMIZING AUTOMATED MODELLING OF RESOURCE ALLOCATION**, and in and to the application and all corresponding provisional, non-provisional, divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent, utility models, industrial designs or similar intellectual property rights which have been or shall be filed in the United States, internationally, and in any foreign country, including but not limited to China, Japan and Korea, on any of the inventions and designs; and in and to all original and reissued patents which have been or shall be issued in the United States or any other jurisdiction on the inventions and designs, including the right to apply for patent rights in each foreign country and all rights to priority, including the right to claim priority for China, Japan and Korea; as well as the right to sue in its own name and recover damages for past infringement of any United States Letters Patent and foreign patent, including a reasonable royalty relating to provisional rights under 35 U.S.C. § 154(d) that have attached to any published United States patent application, on the inventions and designs;
2. Agree that the Assignee may apply for and receive Letters Patent and utility model and industrial design registrations for the inventions and designs in its own name; and when requested, without charge to but at the expense of the Assignee, agree to carry out in good faith the intent and purpose of this Assignment, by executing all non-provisional, divisional, continuing, substitute, renewal, reissue, and all other patent, utility model and industrial design applications on any and all the inventions and designs, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to the Assignee all facts known to me relating to the inventions and designs and the history thereof, and generally by doing everything reasonably possible which the Assignee shall consider desirable for aiding in securing and maintaining proper protection for the inventions and designs and for vesting title to the inventions and designs and all applications for patents and all patents on the inventions and designs, in the Assignee;
3. Request the Director of the United States Patent and Trademark Office and foreign patent authorities to issue the Letters Patent or other intellectual property rights, including foreign patents, to the Assignee;
4. Authorize and request Wolf, Greenfield & Sacks, P.C. to supply any missing application identification information or correct any errors in the application identification information provided above, whether discovered prior to or after recordation;
5. Covenant with the Assignee that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by me and that full right to convey the same as herein expressed is possessed by me; and
6. Appoint Assignee, through its designee, my attorney-in-fact to execute, in my name and on my behalf, any and all documents required to effectuate this Assignment, specifically including, but not limited to, those documents specified above and any necessary corrective assignments.

This instrument is executed under seal and signed under the pains and penalties of perjury under the laws of the United States of America.

Attorney Docket No. **00405.70000US02**

10/1/2019  
Date

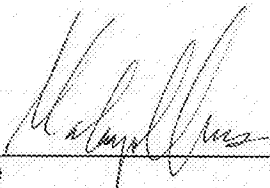
  
Inventor: Nicholas Arcolano  
Address: 33 Franklin Street  
Watertown, Massachusetts 02472  
Citizenship: US

Witness:  
10/1/19  
Date

  
Signature

Name: Alexander S. Metzger  
Address: 36 Queensberry St #12  
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Witness:  
10/1/19  
Date

  
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Name: Mobolaji Williams  
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Inventor: Glenn Stephen Barnett  
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Date

  
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Address: 26 Queensberry St. #12  
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Signature

Name: Nicholas Arcolano  
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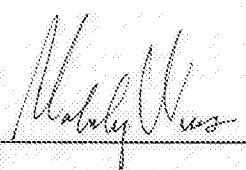
  
Inventor: Philip Joseph Braden

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Signature

Name:

Mobolaji Williams

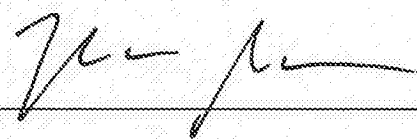
Address:

9 Parkdale St.

Somerville MA 02143

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Signature

Name:

Nicholas Arcolan

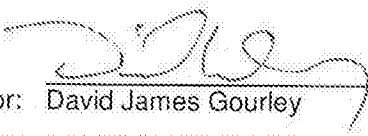
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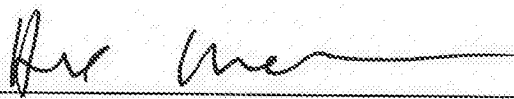
Watertown MA 02472

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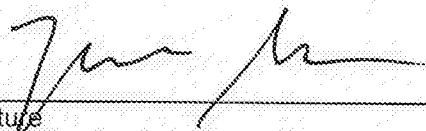
  
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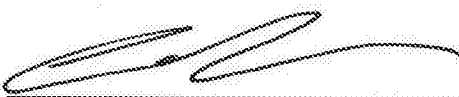
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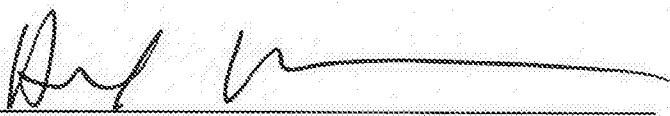
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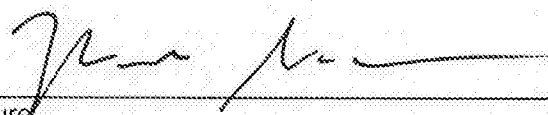
  
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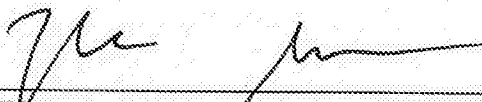
  
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