09/03/2019 505650822

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5697628

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
KELLEY JO ROUNTREE	08/31/2018
JAMES LYNN DAVIS	08/31/2018
KARMANN CRESSMAN MILLS	09/06/2018
GEORGIY BOBASHEV	09/14/2018
ROBERT FURBERG	09/20/2018
ANTHONY CLINT CLAYTON	08/31/2018

RECEIVING PARTY DATA

Name:	RESEARCH TRIANGLE INSTITUTE	
Street Address:	3040 CORNWALLIS ROAD	
City:	RESEARCH TRIANGLE PARK	
State/Country:	NORTH CAROLINA	
Postal Code:	27709	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16557399

CORRESPONDENCE DATA

Fax Number: (888)737-1649

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: 9198890914

Email: docket@olivelawgroup.com OLIVE LAW GROUP, PLLC **Correspondent Name:** 125 EDINBURGH S DRIVE Address Line 1:

Address Line 2: SUITE 220

Address Line 4: CARY, NORTH CAROLINA 27511

ATTORNEY DOCKET NUMBER:	121-86-UTIL
NAME OF SUBMITTER:	RONALD A. RUDDER
SIGNATURE:	/Ronald A. Rudder/
DATE SIGNED:	09/03/2019

PATENT REEL: 050243 FRAME: 0535 505650822

Total Attachments: 4

source=121-86-PROV_Assignment_Signed#page1.tif

source=121-86-PROV_Assignment_Signed#page2.tif

source=121-86-PROV_Assignment_Signed#page3.tif

source=121-86-PROV_Assignment_Signed#page4.tif

PATENT REEL: 050243 FRAME: 0536

WORLDWIDE ASSIGNMENT

WHEREAS, I/WE, (hereinafter referred to as the "ASSIGNOR(S)"):

Kelley Jo Rountree, of Raleigh, North Carolina; James Lynn Davis, of Holly Springs, North Carolina; Karmann Cressman Mills, of Apex, North Carolina; Georgiy Bobashev, of Raleigh, North Carolina; Robert Furberg, of Research Triangle Park, North Carolina; and Anthony Clint Clayton, of Rougemont, North Carolina

have invented an **ADVANCED LIGHTING EFFECTS INVESTIGATION SYSTEM AND COMPUTERIZED METHOD** ("Invention") for which one or more applications for patent, design registration, utility model registration, or other form of protection, rights, or title have been or will be made in certain countries ("Applications"), as further described below:

U.S. Provisional Patent Application Serial No. 62/725,053 filed August 30, 2018.

AND WHEREAS, **Research Triangle Institute** (hereinafter referred to as the "ASSIGNEE"), a company organized under the laws of NORTH CAROLINA having a place of business at 3040 Cornwallis Road, Research Triangle Park, NC 27709, is desirous of acquiring the full and exclusive right, title and interest in and to said Invention, said Applications inclusive of all ancillary rights relating thereto, any and all priority rights derived from said Applications, and all patents, design registrations, utility model registrations and other forms of protection, rights and titles relating to said Invention, in any country or countries and in respect of the whole or any part or parts of or improvements to the Invention;

NOW THEREFORE, for valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNOR(S) does/do hereby confirm that ASSIGNOR(S) has/have transferred, conveyed and assigned, and by way of further assurance does/do hereby transfer, convey and assign, any and all of ASSIGNOR(S)'s respective rights, title and interest in and to: the Invention; the Applications; any further applications for patent, design registration, utility model registration or other forms of protection, rights or titles for the whole or any part or parts of or improvements to the Invention in any country or countries ("Further Applications") together with the right to file divisional applications, substitute applications and continuation applications of any one or more of the Applications and Further Applications ("Divisionals"); the right to obtain patents, design registrations, utility model registrations and all other forms of protection, rights and titles relating to the Invention; the right in and to any patent or reissue patent relating to the Applications, Further Applications and Divisionals ("Grants"); and the right to obtain any extensions / supplementary protection certificates ("Extensions"); together with the right to bring proceedings to recover damages and/or to obtain other remedies for acts committed in respect of one or more of the aforesaid Invention, Applications, Grants, Further Applications, Divisionals and Extensions, whether such acts are committed before or after the date of this Worldwide Assignment; with the intent that the Invention, Applications, Grants, Further Applications,

Divisionals and Extensions are owned and enjoyed by ASSIGNEE absolutely to the full end of the term or terms for same.

ASSIGNOR(S) does/do hereby agree, upon request, to provide assistance and to execute any and all further documents, at the expense of ASSIGNEE and/or its successors and assigns (as applicable), which may be necessary or desirable to enable ASSIGNEE, and/or its successors and assigns (as applicable), to file, prosecute, bring proceedings and take other actions with respect to any and all of the Invention, Applications, Further Applications, Divisionals, Grants and Extensions, and any and all patents and registrations granted thereon and other forms of protection, rights and titles relating thereto, and ASSIGNOR(S) further agrees/agree to execute, upon request and at the expense of ASSIGNEE and/or its successors and assigns (as applicable), any and all further documents which may be necessary or desirable to vest or perfect the title of ASSIGNEE therein.

ASSIGNOR(S) does/do hereby authorize ASSIGNEE or its patent agents or attorneys to insert, above, the jurisdictions, application numbers, filing dates and any other indicia identifying the Applications when such information is available for the purpose of recording this assignment.

ASSIGNOR(S) does/do hereby authorize and request The Commissioner of Patents or any equivalent authority to issue to ASSIGNEE each and every patent, registration and other form of protection, right, and title granted upon the Applications, Further Applications, Divisionals and Extensions.

THIS WORLDWIDE ASSIGNMENT shall inure to the benefit of ASSIGNEE and its successors and assigns, and shall be binding upon ASSIGNOR(S) and their successors and permitted assigns.

DELIVERY of this Worldwide Assignment by copy, however transmitted, constitutes valid and effective delivery. This Worldwide Assignment may be executed in one or more counterparts, each of which when so executed and delivered shall be an original, and such counterparts shall together constitute one and the same instrument.

IN WITNESS WHEREOF, this Worldwide Assignment has been executed below by the undersigned:

Date: 8/31/2018	KULY / 12 Kelley Jo Rountree
Date: 8/3//2018	Ames Lynn Davis
Date: 9/6/18	Karmann Cressman Mills
Date:	Georgiy Bobashev
Date: 9 22 229	Robert Furberg
Date: 8/31/2018	Lulk Claf College Anthons Chint Clayton

IN WITNESS WHEREOF, this Worldwide Assignment has been executed below by the undersigned:

Date:	
	Kelley Jo Rountree
Date:	
	James Lynn Davis
Date:	Karmann Cressman Mills
Date:Sept. 14th, 2018	Georgiy Bobashev Georgiy Bobashev
Date:	Robert Furberg
Date:	Anthony Clint Clayton