505305843 01/31/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5352623

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ABBY R WHITTINGTON	11/13/2017
TIMOTHY E LONG	08/06/2018
ANDRE STEVENSON	11/17/2017
CALLIE E ZAWASKI	08/02/2018
ALLISON M PEKKANEN	10/13/2018
CHRISTOPHER B WILLIAMS	08/02/2018

RECEIVING PARTY DATA

Name:	VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY
Street Address:	301 BURRUSS HALL
City:	BLACKSBURG
State/Country:	VIRGINIA
Postal Code:	24061

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15667654

CORRESPONDENCE DATA

Fax Number: (513)855-3019

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.

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ATTORNEY DOCKET NUMBER:	14464M
NAME OF SUBMITTER:	SARAH M DECRISTOFARO
SIGNATURE:	/Sarah M DeCristofaro/
DATE SIGNED:	01/31/2019

PATENT 505305843 REEL: 048200 FRAME: 0982

Total Attachments: 7 source=14464M-Inventor-to-VTech#page1.tif source=14464M-Inventor-to-VTech#page2.tif source=14464M-Inventor-to-VTech#page3.tif source=14464M-Inventor-to-VTech#page4.tif source=14464M-Inventor-to-VTech#page5.tif source=14464M-Inventor-to-VTech#page6.tif source=14464M-Inventor-to-VTech#page7.tif

PATENT REEL: 048200 FRAME: 0983

Serial Number: 15/667,654

ASSIGNMENT

WHEREAS, I/we, the below-named inventor(s) (hereinafter referred to as ASSIGNORS) whose residence address is stated below, have invented certain new and useful improvements in an invention entitled:

Polymeric Materials and Articles Manufactured There From

for which an application for United States Letters Patent Serial No. <u>15/667,654</u> has been filed on <u>8/3/2017</u>; and

WHEREAS, Virginia Polytechnic Institute and State University, (hereinafter referred to as ASSIGNEE), an institute of higher education organized under the laws of the Commonwealth of Virginia, having an office and principal place of business at 301 Burruss Hall, Blacksburg, Virginia, 24061, is desirous of acquiring the entire right, title and interest in, to and under said application and said invention and in, to and under Letters Patent or similar legal protection to be obtained therefore in the United States and in any and all foreign countries.

NOW, THEREFORE, for good and valuable consideration, including salary or payment for the making of inventions, or employee benefits, the receipt of which is hereby acknowledged, ASSIGNORS hereby sell, assign and transfer to ASSIGNEE, its lawful successors and assigns, the full and exclusive right, title and interest, including right to priority claim, to said invention in the United States and its territorial possessions and in all foreign countries and to all Letters Patent or similar legal protection in the United States and its territorial possessions and in any and all foreign countries and any non-provisional applications claiming the benefit of and to be obtained for said invention by said application or any continuation, division, continuation-in-part, reexamination, renewal, substitute, extension or reissue thereof or any legal equivalent thereof in a foreign country for the full term or terms for which the same may be granted; and authorize and request the Commissioner of Patents of the United States and any official of any foreign country whose duty it is to issue patents or legal equivalents thereto, to issue same for this invention to ASSIGNEE, its lawful successors and assigns.

ASSIGNORS hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale.

ASSIGNORS further covenant that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent and legal equivalents in foreign countries as may be known and accessible to ASSIGNORS and will testify as to the same in any interference or litigation related thereto and will promptly execute and deliver to ASSIGNEE or its legal

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legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue, enforce and defend said application, said invention and said Letters Patent and said equivalents thereof in any foreign country which may be necessary or desirable to carry out the purposes thereof.

Full Name of Inventor: Abby R. Whittington Residence: 3104 Alice Drive, Blacksburg, VA 24060

	Ally RWhitington		
Signature:	Abby R. Whittington	Date:	13 November 2017
	e.		
Full Name of	Inventor: Timothy E. Long		
	77 Gigi Drive, Blacksburg,	VA 24060	
Signature:			Date:
	Inventor: Andre Stevenson 0 H Houndschase Lane, Bla	cksburg, VA 24060) ·
Signature:	Marija da da kaji da sa kaji da s	:	Date:
		•	
	Inventor: Callie E. Zawaski 45 Turning Leaf, Blacksbur	g, VA 24060	
Signature:			Date:
	Inventor: Allison M. Pekkar 2 Sheliah Court, Blacksburg		
Signature:			Date:
	Inventor: Christopher B. Wi 8 Highview Drive, Blacksb		
Signature:			Date:

legal representative any and all papers, instruments or at obtain, maintain, issue, enforce and defend said applicate Letters Patent and said equivalents thereof in any for necessary or desirable to carry out the purposes thereof.	ation, said invention and said
Full Name of Inventor: Abby R. Whittington Residence: 3104 Alice Drive, Blacksburg, VA 24060	
Signature:	Date:
Full Name of Inventor: Timothy E. Long Residence: 607 Gigi Drive, Blacksburg, VA 24060 Signature: Full Name of Inventor: Andre Stevenson Residence: 800 H Houndschase Lane, Blacksburg, VA 240	
Signature:	Date:
Full Name of Inventor: Callie E. Zawaski Residence: 1645 Turning Leaf, Blacksburg, VA 24060 Signature:	Date:
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Serial Number: 15/667,654

Full Name of Inventor: Allison M. Pekkanen

Full Name of Inventor: Christopher B. Williams Residence: 208 Highview Drive, Blacksburg, VA 24060

Residence: 202 Sheliah Court, Blacksburg, VA 24060

Page 2 of 2

Signature: _____ Date: _____

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Full Name of Inventor: Abby R. Whittington Residence: 3104 Alice Drive, Blacksburg, VA 24060	
Signature:	_ Date:
Full Name of Inventor: Timothy E. Long Residence: 607 Gigi Drive, Blacksburg, VA 24060	
Signature:	_ Date:
Full Name of Inventor: Andre Stevenson Residence: 800 H Houndschase Lane, Blacksburg, VA 240	060
Signature: Andre Stevenson	Date: 11/17/17
Full Name of Inventor: Callie E. Zawaski Residence: 1645 Turning Leaf, Blacksburg, VA 24060	
Signature:	_ Date:
Full Name of Inventor: Allison M. Pekkanen Residence: 202 Sheliah Court, Blacksburg, VA 24060	

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Full Name of Inventor: Christopher B. Williams

Residence: 208 Highview Drive, Blacksburg, VA 24060

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Signature:	Date:
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Signature:	
Full Name of Inventor: Callie E. Zawaski Residence: 1645 Turning Leaf, Blacksburg, VA 24060	
Signature: Clie Zawadki	_ Date:08/02/2018
Full Name of Inventor: Allison M. Pekkanen Residence: 202 Sheliah Court, Blacksburg, VA 24060	
Signature:	Date:
Full Name of Inventor: Christopher B. Williams Residence: 208 Highview Drive, Blacksburg, VA 24060	
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Signature:	_ Date:
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Signature:	Date:
Full Name of Inventor: Andre Stevenson Residence: 800 H Houndschase Lane, Blacksburg, VA 240	060
Signature:	_ Date:
Full Name of Inventor: Callie E. Zawaski Residence: 1645 Turning Leaf, Blacksburg, VA 24060	
Signature:	Date:
Full Name of Inventor: Allison M. Pekkanen Residence: 202 Sheliah Court, Blacksburg VA 24060 Signature: Full Name of Inventor: Christopher B. Williams	_ Date: 10 /3/ 18
Residence: 208 Highview Drive, Blacksburg, VA 24060	
Signature:	Date:

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Full Name of Inventor: Christopher B. Williams Residence: 1104 Deerfield Drive, Blacksburg, VA 24060 Signature:	Date: 08/02/2018