

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT6015378

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
MORSHED KHANDAKER	07/10/2017
SHAHRAM RIAHINEZHAD	06/29/2017
WILLIAM PAUL SNOW	02/10/2019
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	UNIVERSITY OF CENTRAL OKLAHOMA
<b>Street Address:</b>	100 N. UNIVERSITY DRIVE
<b>City:</b>	EDMOND
<b>State/Country:</b>	OKLAHOMA
<b>Postal Code:</b>	73034
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16248122
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(301)896-0607
<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>	301-896-0600
<b>Email:</b>	kadkins@bw-iplaw.com
<b>Correspondent Name:</b>	BERENATO & WHITE, LLC
<b>Address Line 1:</b>	6550 ROCK SPRING DRIVE
<b>Address Line 2:</b>	SUITE 240
<b>Address Line 4:</b>	BETHESDA, MARYLAND 20817
<b>ATTORNEY DOCKET NUMBER:</b>	9076.010_CIP
<b>NAME OF SUBMITTER:</b>	MAURICE W. HAFF
<b>SIGNATURE:</b>	/Maurice W. Haff; Reg No 62224/
<b>DATE SIGNED:</b>	03/16/2020
<b>Total Attachments: 10</b>	
source=ASSIGNTMDOCS#page1.tif	
source=ASSIGNTMDOCS#page2.tif	
source=ASSIGNTMDOCS#page3.tif	

source=ASSIGNMDOCS#page4.tif  
source=ASSIGNMDOCS#page5.tif  
source=ASSIGNMDOCS#page6.tif  
source=ASSIGNMDOCS#page7.tif  
source=ASSIGNMDOCS#page8.tif  
source=ASSIGNMDOCS#page9.tif  
source=ASSIGNMDOCS#page10.tif

**ASSIGNMENT**

In consideration for One Dollar and other good and valuable consideration, receipt of which is hereby acknowledged, we, **Morshed KHANDAKER**, of 15904 Teesdale Road, Edmond, Oklahoma 73013, USA, **Shahram RIAHINEZHAD**, of 1030 Jassamine Way, Fort Lee, New Jersey 07024, USA, and **William Paul SNOW**, of 700 Rimrock Road, Edmond, Oklahoma 73034, USA, hereby sell, assign, transfer and set over to **UNIVERSITY OF CENTRAL OKLAHOMA**, having its principal place of business at 100 N. University Drive, Edmond, Oklahoma 73034, USA, its successors, assigns, nominees, or other legal representatives, the entire right, title and interest in all countries including the priority rights derived from the hereinafter designated application for Letters Patent by virtue of the International Convention for the Protection of Industrial Property for any and all member countries of the aforesaid International Convention, in and to the invention or inventions, and future improvements therein and thereto, made by us for “**NANOFIBER COATING TO IMPROVE BIOLOGICAL AND MECHANICAL PERFORMANCE OF JOINT PROSTHESIS**” and the application for Letters Patent of the United States therefore, bearing a filing date of January 15, 2019 and Application No. 16/248,122 together with all rights, including the sole rights under the aforesaid International Convention to apply for and obtain Letters Patent for said invention or inventions in the United States and in all other countries of the world, including non-provisional, provisional, original, divisional, continuation, continuation-in-part, reissue, utility and design patents, patents of addition, confirmation patents, registration patents, petty patents, utility models, etc., and all other types of patents and the like, and all renewals and extensions of any of them, and the entire right, title and interest in and to all such Letters Patent, the applications therefor and the subject matter of all claims obtained in said

Letters Patent, and authorize and request the Commissioner of Patents and Trademarks of the United States, and any official of any country or countries foreign to the United States whose duty it is to issue Letters Patent on applications as aforesaid to issue the said Letters Patent to **UNIVERSITY OF CENTRAL OKLAHOMA**, its successors, assigns, nominees or other legal representatives, as assignee of the entire interest, and covenant that we convey the entire interest herein assigned and that we have not executed and will not execute any agreement in conflict herewith.

We further covenant and agree that whenever requested by said **UNIVERSITY OF CENTRAL OKLAHOMA**, its successors, assigns, nominees or legal representatives, we will execute and deliver or cause to be executed and delivered such further patent applications, assignments, oaths, disclaimers and other documents, give or cause to be given such evidence and furnish or cause to be furnished such information within our knowledge or control, and do or cause to be done such other acts and furnish or cause to be furnished such other assistance, as it or any of them may deem necessary or desirable in connection with obtaining and/or maintaining any Letters Patent as aforesaid for said invention or inventions, or in connection with any suit or controversy, including interference proceedings, relating to any of such Letters Patent or to any applications therefor or in order to vest or perfect in it or in any of them or to protect or enforce the right, title and interest herein assigned, or otherwise effectuate the premises, all without further consideration but at the expense of said **UNIVERSITY OF CENTRAL OKLAHOMA**, its successors, assigns, nominees or other legal representatives.

ASSIGNORS:

Date: \_\_\_\_\_

\_\_\_\_\_  
Morshed KHANDAKER

Date: \_\_\_\_\_

\_\_\_\_\_  
Shahram RIAHINEZHAD

Date: 2/10/19

*Paul Snow*  
\_\_\_\_\_  
William Paul SNOW

**ASSIGNMENT**

In consideration for One Dollar and other good and valuable consideration, receipt of which is hereby acknowledged, I, **William Paul SNOW**, of 700 Rimrock Road, Edmond, Oklahoma 73034, USA, hereby sell, assign, transfer and set over to **UNIVERSITY OF CENTRAL OKLAHOMA**, having its principal place of business at 100 N. University Drive, Edmond, Oklahoma 73034, USA, its successors, assigns, nominees, or other legal representatives, the entire right, title and interest in all countries including the priority rights derived from the hereinafter designated application for Letters Patent by virtue of the International Convention for the Protection of Industrial Property for any and all member countries of the aforesaid International Convention, in and to the invention or inventions made by me for "**METHOD AND APPARATUS TO COAT A METAL IMPLANT WITH ELECTROSPUN NANOFIBER MATRIX**" and the application for Letters Patent of the United States therefore, bearing a filing date of October 24, 2017 and Application No. 15/791,571 together with all rights, including the sole rights under the aforesaid International Convention to apply for and obtain Letters Patent for said invention or inventions in the United States and in all other countries of the world, including non-provisional, provisional, original, divisional, continuation, continuation-in-part, reissue, utility and design patents, patents of addition, confirmation patents, registration patents, petty patents, utility models, etc., and all other types of patents and the like, and all renewals and extensions of any of them, and the entire right, title and interest in and to all such Letters Patent, the applications therefor and the subject matter of all claims obtained in said Letters Patent, and authorize and request the Commissioner of Patents and Trademarks of the United States, and any official of any country or countries foreign to the United States whose duty it is to issue Letters Patent on applications as aforesaid to issue the said Letters Patent to **UNIVERSITY OF CENTRAL OKLAHOMA**, its successors, assigns, nominees or other legal representatives, as assignee of the entire interest, and covenant

that I convey the entire interest herein assigned and that I have not executed and will not execute any agreement in conflict herewith.

I further covenant and agree that whenever requested by said **UNIVERSITY OF CENTRAL OKLAHOMA**, its successors, assigns, nominees or legal representatives, I will execute and deliver or cause to be executed and delivered such further patent applications, assignments, oaths, disclaimers and other documents, give or cause to be given such evidence and furnish or cause to be furnished such information within my knowledge or control, and do or cause to be done such other acts and furnish or cause to be furnished such other assistance, as it or any of them may deem necessary or desirable in connection with obtaining and/or maintaining any Letters Patent as aforesaid for said invention or inventions, or in connection with any suit or controversy, including interference proceedings, relating to any of such Letters Patent or to any applications therefor or in order to vest or perfect in it or in any of them or to protect or enforce the right, title and interest herein assigned, or otherwise effectuate the premises, all without further consideration but at the expense of said **UNIVERSITY OF CENTRAL OKLAHOMA**, its successors, assigns, nominees or other legal representatives.

Date: 10/24/18

  
\_\_\_\_\_  
William Paul SNOW

**ASSIGNMENT**

In consideration for One Dollar and other good and valuable consideration, receipt of which is hereby acknowledged, we, **Morshed KHANDAKER**, of 15904 Teesdale Road, Edmond, Oklahoma 73013, USA, and **Shahram RIAHINEZHAD**, of 412 N Baumann Avenue, Edmond, Oklahoma 73034, USA, hereby sell, assign, transfer and set over to **UNIVERSITY OF CENTRAL OKLAHOMA**, having its principal place of business at 100 N. University Drive, Edmond, Oklahoma 73034, USA, its successors, assigns, nominees, or other legal representatives, the entire right, title and interest in all countries including the priority rights derived from the hereinafter designated application for Letters Patent by virtue of the International Convention for the Protection of Industrial Property for any and all member countries of the aforesaid International Convention, in and to the invention or inventions made by us for “**METHOD AND APPARATUS TO COAT A METAL IMPLANT WITH AN EXTRACELLULAR MATRIX MADE WITH ELECTROSPUN FIBER**” and the application for Letters Patent of the United States therefore, bearing a filing date of March 23, 2016 and Application No. 62/312,041 together with all rights, including the sole rights under the aforesaid International Convention to apply for and obtain Letters Patent for said invention or inventions in the United States and in all other countries of the world, including non-provisional, provisional, original, divisional, continuation, continuation-in-part, reissue, utility and design patents, patents of addition, confirmation patents, registration patents, petty patents, utility models, etc., and all other types of patents and the like, and all renewals and extensions of any of them, and the entire right, title and interest in and to all such Letters Patent, the applications therefor and the subject matter of all claims obtained in said Letters Patent, and authorize and request the Commissioner of Patents and Trademarks of the United States, and any official of any country or countries foreign to the United States whose duty it is to issue Letters Patent on applications as aforesaid to issue the said Letters Patent to **UNIVERSITY OF CENTRAL**



OKLAHOMA, its successors, assigns, nominees or other legal representatives, as assignee of the entire interest, and covenant that we convey the entire interest herein assigned and that we have not executed and will not execute any agreement in conflict herewith.


We further covenant and agree that whenever requested by said **UNIVERSITY OF CENTRAL OKLAHOMA**, its successors, assigns, nominees or legal representatives, we will execute and deliver or cause to be executed and delivered such further patent applications, assignments, oaths, disclaimers and other documents, give or cause to be given such evidence and furnish or cause to be furnished such information within our knowledge or control, and do or cause to be done such other acts and furnish or cause to be furnished such other assistance, as it or any of them may deem necessary or desirable in connection with obtaining and/or maintaining any Letters Patent as aforesaid for said invention or inventions, or in connection with any suit or controversy, including interference proceedings, relating to any of such Letters Patent or to any applications therefor or in order to vest or perfect in it or in any of them or to protect or enforce the right, title and interest herein assigned, or otherwise effectuate the premises, all without further consideration but at the expense of said **UNIVERSITY OF CENTRAL OKLAHOMA**, its successors, assigns, nominees or other legal representatives.

We hereby grant to Joseph W. Berenato, III of Berenato & White, LLC, full power to insert herein the filing date and application number of the application for Letters Patent of the United States first above mentioned.

Date: 7/10/2017

  
\_\_\_\_\_  
Morshed KHANDAKER

Date: 06/29/2017

  
\_\_\_\_\_  
Shahram RIAHINEZHAD

**Assignment of Rights, Title and Interest in Invention**

This is an Assignment of the following rights, title and interest: (check all that apply):

- United States of America rights, title and interest in the invention  
 Foreign rights, title and interest in the invention  
 United States Patent Application Serial No. 62/038,506  
 Date of Execution:  
 Date of Filing: August 18, 2014  
 United States Patent No(s).

**Title of the Invention:**

METHOD AND APPARATUS FOR THE CONTROLLED DEPOSITION OF BRANCHED ELECTROSPUN FIBER ON BIOMEDICAL IMPLANTS AND MATERIAL.

**Inventors****Addresses**Morshed KHANDAKER15904 Teesdale Road, Edmond, OK 73013, USAWilliam Paul SNOW700 Rimrock Road, Edmond, OK 73034, USA**Assignee**UNIVERSITY OF CENTRAL OKLAHOMA100 N. University Drive, Edmond, Oklahoma 73034, USA

Whereas, we, the above-identified Inventors, have invented certain new and useful improvements in the invention identified above and described in the above-identified patent application(s) and/or patent(s) (hereinafter referred to as "Invention");

And, whereas we desire to assign our above-identified rights, title and interest in the Invention to the above-identified Assignee;

Now, that for good and valuable consideration, the receipt whereof is hereby acknowledged;

We hereby assign, sell and transfer our above-identified rights, title and interest in said Invention, said application(s) as identified above, including any divisions, continuations, and continuations-in-part thereof, and in and to any and all Letters Patent of the United States, and countries foreign thereto, which may be granted or have granted for said Invention, and in and to any and all reissues and reexaminations thereof, and in and to any and all priority rights, Convention rights, and other benefits accruing or to accrue to use with respect to the filing of applications for patents or securing of patents in the United States and countries foreign thereto, unto said Assignee.

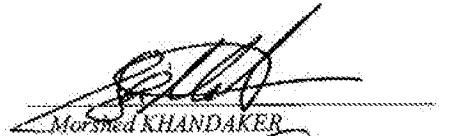
And we hereby authorize and request the Commissioner of Patents and Trademarks to issue any United States Patent which may issue for said Invention to said Assignee, as assignee of the whole right, title and interest thereto;

And we further agree to sign and execute all necessary and lawful future documents, including applications for foreign patents, for filing divisions, continuations and continuations-in-part of said application for patent, and/or, for obtaining any reissue or reissues of any Letters Patent which may be granted for our aforesaid Invention, as the Assignee or its Designee(s) may from time to time require and prepare at its own expense.

And we hereby grant to Joseph W. Berenato, III of Berenato & White, LLC, full power to insert herein the filing date and application number of the application for Letters Patent of the United States first above mentioned.

8/19/2014

Date



Morshed KHANDAKER

8/19/2014

Date



William Paul SNOW

**ASSIGNMENT**

In consideration for One Dollar and other good and valuable consideration, receipt of which is hereby acknowledged, we, **Morshed KHANDAKER**, of 15904 Teesdale Road, Edmond, Oklahoma 73013, USA, and **Shahram RIAHINEZHAD**, of 412 N Baumann Avenue, Edmond, Oklahoma 73034, USA, hereby sell, assign, transfer and set over to **UNIVERSITY OF CENTRAL OKLAHOMA**, having its principal place of business at 100 N. University Drive, Edmond, Oklahoma 73034, USA, its successors, assigns, nominees, or other legal representatives, the entire right, title and interest in all countries including the priority rights derived from the hereinafter designated application for Letters Patent by virtue of the International Convention for the Protection of Industrial Property for any and all member countries of the aforesaid International Convention, in and to the invention or inventions made by us for “**METHOD AND APPARATUS TO CONTROL THE HETEROGENEOUS FLOW OF BONE CEMENT AND IMPROVE OSSEOINTEGRATION OF CEMENTED IMPLANT**” and the application for Letters Patent of the United States therefore, bearing a filing date of August 11, 2016 and Application No. 62/373,786 together with all rights, including the sole rights under the aforesaid International Convention to apply for and obtain Letters Patent for said invention or inventions in the United States and in all other countries of the world, including non-provisional, provisional, original, divisional, continuation, continuation-in-part, reissue, utility and design patents, patents of addition, confirmation patents, registration patents, petty patents, utility models, etc., and all other types of patents and the like, and all renewals and extensions of any of them, and the entire right, title and interest in and to all such Letters Patent, the applications therefor and the subject matter of all claims obtained in said Letters Patent, and authorize and request the Commissioner of Patents and Trademarks of the United States, and any official of any country or countries foreign to the United States whose duty it is to issue Letters Patent on applications as aforesaid to issue the said Letters Patent to **UNIVERSITY OF**

CENTRAL OKLAHOMA, its successors, assigns, nominees or other legal representatives, as assignee of the entire interest, and covenant that we convey the entire interest herein assigned and that we have not executed and will not execute any agreement in conflict herewith.


We further covenant and agree that whenever requested by said UNIVERSITY OF CENTRAL OKLAHOMA, its successors, assigns, nominees or legal representatives, we will execute and deliver or cause to be executed and delivered such further patent applications, assignments, oaths, disclaimers and other documents, give or cause to be given such evidence and furnish or cause to be furnished such information within our knowledge or control, and do or cause to be done such other acts and furnish or cause to be furnished such other assistance, as it or any of them may deem necessary or desirable in connection with obtaining and/or maintaining any Letters Patent as aforesaid for said invention or inventions, or in connection with any suit or controversy, including interference proceedings, relating to any of such Letters Patent or to any applications therefor or in order to vest or perfect in it or in any of them or to protect or enforce the right, title and interest herein assigned, or otherwise effectuate the premises, all without further consideration but at the expense of said UNIVERSITY OF CENTRAL OKLAHOMA, its successors, assigns, nominees or other legal representatives.

We hereby grant to Joseph W. Berenato, III of Berenato & White, LLC, full power to insert herein the filing date and application number of the application for Letters Patent of the United States first above mentioned.

Date: 8/12/2016

  
\_\_\_\_\_  
Morshed KHANDAKER

Date: 08/11/2016

  
\_\_\_\_\_  
Shabram RAHINEZHAD