

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT4990987

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
WESTERN MICHIGAN UNIVERSITY RESEARCH FOUNDATION	05/03/2018
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	THE BOARD OF TRUSTEES OF WESTERN MICHIGAN UNIVERSITY
<b>Street Address:</b>	1903 WEST MICHIGAN AVENUE
<b>City:</b>	KALAMAZOO
<b>State/Country:</b>	MICHIGAN
<b>Postal Code:</b>	49008
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	12900851
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
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<b>NAME OF SUBMITTER:</b>	JEFFREY S. KAPTEYN
<b>SIGNATURE:</b>	/Jeffrey S. Kapteyn/
<b>DATE SIGNED:</b>	06/05/2018
<b>Total Attachments: 3</b>	
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**ASSIGNMENT**

WHEREAS, Western Michigan University Research Foundation, a non-profit corporation of the state of Michigan, having a place of business at 1903 West Michigan Ave., Kalamazoo, MI 49008, (hereinafter referred to as Assignor), owns the United States Patents and Patent Applications listed in Appendix A attached hereto.

WHEREAS, The Board of Trustees of Western Michigan University, a constitutional corporation of the state of Michigan, having a place of business at 1903 West Michigan Ave., Kalamazoo, MI 49008, (hereinafter referred to as Assignee) is desirous of acquiring the entire right, title and interest in all United States Patents and Patent Applications listed in Appendix A.

NOW, THEREFORE, in consideration of the sum of one dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable considerations, Assignor hereby sells, assigns and transfers unto said Assignee the full and exclusive right, title and interest to all United States Patents and Patent Applications listed in Appendix A and in and to any and all divisions, reissues, continuations, continuation-in-part, and extensions thereof including the full right to claim for any such applications the benefits of the International Convention, and including the right to obtain a reasonable royalty pursuant to 35 U.S.C. § 154(d) upon publication of any such United States applications, and including the right to sue for past infringement of any issued United States Patents listed in Appendix A.

Assignor hereby authorizes and requests the Patent Office Officials in the United States and in any and all foreign countries to issue any and all of said Letters Patent, when granted, to said Assignee as the owner of the entire right, title and interest in and to the same, for the sole use and benefit of said Assignee, its successors and assigns.

IN TESTIMONY WHEREOF, I have hereunto set my hand on the date appearing next to my signature.

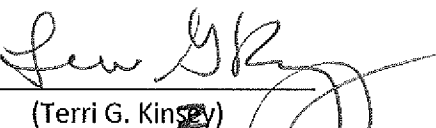
WESTERN MICHIGAN UNIVERSITY  
RESEARCH FOUNDATION (Assignor)

Dated: 5/3/18

By:   
(D. Clark Bennett)

Its: Director of Operations, WMU Research Foundation

Dated: 5/3/18

By:   
(Terri G. Kinsey)

Its: Vice President, WMU Research Foundation

## APPENDIX A

Attorney Docket Number	Application Number	Filing Date	Patent Number	Issue Date	Title
WES19P304	12/900851	10/8/2010	9,454,739	9/27/2016	MULTI-PERIOD FINANCIAL SIMULATOR OF A PROCESS
WES19P304A	11/415357	5/1/2006	--	--	MULTI-PERIOD FINANCIAL SIMULATOR OF A MANUFACTURING OPERATION
WES19P306	09/835757	4/16/2010	6,699,525	3/2/2004	METHOD OF FORMING CARBON ANAOTUBES AND APPARATUS THEREFOR
WES19P307	10/369298	2/19/2003	6,942,897	9/13/2005	NANOPARTICLE BARRIER-COATED SUBSTRATE AND METHOD FOR MAKING THE SAME
WES19P308	11/992811	11/18/2009	8,933,366	1/13/2015	MICRO LASER ASSISTED MACHINING
WES19P309	11/103265	4/11/2005	--	--	PROCESS FOR REMOVING SILICA FROM CELLULOSIC MATERIAL
WES19P310	12/084085	7/26/2010	8,510,056	8/13/2013	METHOD AND INTEGRATED MICROSYSTEM FOR DETECTING BIOMOLECULES IN LIQUID
WES19P311	12/087977	7/17/2008	--	--	SYSTEM AND METHOD FOR ELICITING SUBJECTIVE PROBABILITIES
WES19P320	29/316044	8/18/2009	D627993	1/30/2010	TABLE SUPPORT
WES19P322	12/882253	9/15/2010	--	--	WIND OSCILLATOR FOR POWER GENERATION
WES19P325	13/703110	2/18/2013	--	--	DEVICE FOR COLLECTION OF MATERIALS FROM SURFACES
WES19P329A	13/837139	3/15/2013	9,121,803	9/1/2015	THERMAL DISTORTION TESTER
WES19P331A	13/837601	3/15/2013	9,121,804	9/1/2015	THERMAL EROSION TESTER
WES19P332A	14/402833	11/21/2014	9,901,901	2/27/2018	SELECTIVE EXTRACTION OF ANIONS FROM SOLUTION
WES19P333	13/681000	11/19/2012	9,464,623	10/11/2016	METHOD AND DEVICE FOR POWER GENERATION
WES19P334A	14/652026	6/12/2015	9,901,977	2/27/2018	PATTERNLESS SAND MOLD AND CORE FORMATION FOR RAPID CASTING
WES19P337A	14/917837	3/9/2016	--	--	MICROFLUIDIC SYSTEMS WITH MICROCHANNELS AND A METHOD OF MAKING THE SAME
WES19P340A	15/329151	1/25/2017	--	--	SELF-SUPPORTED ELECTRONIC DEVICES
WES19P342A	14/830297	8/19/2015	9,943,128	4/17/2018	HELMET IMPACT MONITORING SYSTEM
WES19P343A	15/533110	6/5/2017	--	--	COLORED SPECIAL EFFECT INKS
WES19P344A	15/092176	4/6/2016	--	--	INTERACTIVE PERFORMANCE FEEDBACK FOR EXERCISE EQUIPMENT
WES19P345	14/624437	2/17/2015	--	--	SELECTIVE EXTRACTION OF ANIONS FROM SOLUTION
WES19P347A	15/207021	7/11/2016	--	--	CHITOSAN AS A BIOBASED BARRIER COATING FOR FUNCTIONAL PAPERBOARD PRODUCTS

## APPENDIX A

Attorney Docket Number	Application Number	Filing Date	Patent Number	Issue Date	Title
WES19P348A	15/337617	10/28/2016	--	--	LASER AUGMENTED DIAMOND DRILLING APPARATUS AND METHOD
WES19P350A	15/359906	11/23/2016	--	--	3D METAL PRINTING DEVICE AND PROCESS
WES19P352A	15/595243	5/15/2017	--	--	PRINTED WIRELESS INDUCTIVE-CAPACITIVE (LC) SENSOR FOR HEAVY METAL DETECTION
WES19P354A	15/591856	5/10/2017	--	--	PRINTED ECG ELECTRODE AND METHOD
WES19P359	15/597896	5/17/2017	--	--	INTERACTIVE PERFORMANCE FEEDBACK FOR EXERCISE EQUIPMENT
WES19P360	15/407912	1/17/2017	--	--	COMPOSITION FOR TREATING CANCEROUS CELLS AND A METHOD THEREFOR
WES19P364	15/650443	7/14/2017	--	--	DUAL PRESSURE RESPIRATORY ASSISTANCE DEVICE
WES19PP348	62/248863	10/30/2015	--	--	LASER AUGMENTED DIAMOND DRILLING APPARATUS AND METHOD
WES19PP349	62/255758	11/16/2015	--	--	PROCESS FOR BINDING CONDUCTIVE INK TO GLASS
WES19PP350	62/259228	11/24/2015	--	--	3D METAL PRINTING DEVICE AND PROCESS
WES19PP351	62/396926	9/20/2016	--	--	REPULPABLE SILICONE RELEASE LINER PAPER WITH DISSOLVABLE LAYER
WES19PP352	62/336178	5/13/2016	--	--	PRINTED WIRELESS INDUCTIVE-CAPACITIVE (LC) SENSOR FOR HEAVY METAL DETECTION
WES19PP354	62/339397	5/20/2016	--	--	PRINTED ECG ELECTRODE AND METHOD
WES19PP357	62/419014	11/8/2016	--	--	VISION-BASED GUIDANCE SYSTEM