

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4513731

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	CONFIRMATORY PATENT ASSIGNMENT	
CONVEYING PARTY DATA		
Name		Execution Date
BIOGENIC REAGENTS, LLC		06/06/2017
RECEIVING PARTY DATA		
Name:	BIOGENIC REAGENTS VENTURES, LLC	
Street Address:	133 FIRST AVENUE N.	
City:	MINNEAPOLIS	
State/Country:	MINNESOTA	
Postal Code:	55401	
PROPERTY NUMBERS Total: 43		
Property Type	Number	
Application Number:	61928100	
PCT Number:	US2015011787	
Patent Number:	9475031	
Application Number:	14599058	
Application Number:	14599089	
Application Number:	61475930	
Application Number:	61475937	
Application Number:	61475943	
Application Number:	61475946	
Application Number:	61475949	
Application Number:	61475956	
Application Number:	61475959	
Application Number:	61475968	
Application Number:	61475971	
Application Number:	61475973	
Application Number:	61475977	
Application Number:	61475981	
Application Number:	61475991	
Application Number:	61475996	
Application Number:	61476025	

PATENT

Property Type	Number
Application Number:	61476043
Application Number:	61476049
PCT Number:	US2012033630
Application Number:	15180650
PCT Number:	US2012033628
Application Number:	15180763
Application Number:	13446764
PCT Number:	US2012033624
Application Number:	14548874
Application Number:	61943565
PCT Number:	US2015017351
Application Number:	14630331
Application Number:	15172358
PCT Number:	US2012033627
Application Number:	61643741
Application Number:	61721827
Application Number:	61737514
PCT Number:	US2013039981
PCT Number:	US2013039991
PCT Number:	US2013039986
Application Number:	61895381
Application Number:	14523358
PCT Number:	US2014062202

CORRESPONDENCE DATA

Fax Number: (210)226-8395

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: (210) 554-5389

Email: IPDOCKET@DYKEMA.COM

Correspondent Name: DYKEMA GOSSETT P.L.L.C.

Address Line 1: 112 EAST PECAN STREET, SUITE 1800

Address Line 2: ATTN: COURTENAY B. ALLEN

Address Line 4: SAN ANTONIO, TEXAS 78205

ATTORNEY DOCKET NUMBER:	114265.2
NAME OF SUBMITTER:	COURTENAY B. ALLEN
SIGNATURE:	/court b. allen/
DATE SIGNED:	07/20/2017

Total Attachments: 9

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CONFIRMATORY PATENT ASSIGNMENT

WHEREAS, at least as early as June 13, 2014 (the "Effective Date"), **Biogenic Reagents, LLC**, a Delaware limited liability company having its main place of business at 133 First Avenue N., Minneapolis, MN 55401 (hereafter referred to as the "ASSIGNOR"), was the owner of certain new and useful improvements in the inventions disclosed in the patents and patent applications listed in Schedule A (hereafter referred to as the "Patents"), which is attached hereto and incorporated herein by reference; and

WHEREAS, the ASSIGNOR has previously assigned to **Biogenic Reagents Ventures, LLC**, a Delaware limited liability company having its main place of business at 133 First Avenue N., Minneapolis, MN 55401 (hereafter referred to as the "ASSIGNEE"), by assignments dated June 13, 2014, and March 9, 2016 (hereinafter, the "Previous Assignment"), the entire right, title, and interest in and to the Patents and the inventions disclosed therein; and

WHEREAS, the Previous Assignment was not notarized and mistakenly referred to the ASSIGNEE as a corporation rather than a limited liability company; and

WHEREAS, the ASSIGNOR and the ASSIGNEE desire for ASSIGNOR to execute this Confirmatory Patent Assignment in the presence of a notary public to confirm and clarify proper ownership of the Patents and the inventions disclosed therein;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR does hereby sell, assign, transfer and convey unto ASSIGNEE the entire right, title and interest in and to said Patents and the inventions disclosed therein, and all rights of priority to the Patents and all applications claiming priority thereto, and any other patent application directed to said inventions, and all divisionals, renewals, continuations and continuations-in-part thereof, and any and all Letters Patent of the United States which may be granted thereon, and all reissues, reexaminations, and extensions thereof, and all priority rights under all available international agreements, treaties and conventions for the protection of intellectual property in its various forms in every participating country, and all applications for Letters Patent or other grants of protection of proprietary rights including, but not limited to, inventor's certificate, utility model, utility certificate, patent of importation, registration of patent and industrial design registration which may be filed, and which may be granted, for said inventions in any countries or regions foreign to the United States, and all reissues, reexaminations, renewals and extensions thereof; and ASSIGNORS hereby authorize and request the Commissioner for Patents and Trademarks of the United States, and all officials of countries or regions foreign to the United States having authority so to do, to issue all such Letters Patent or other grants of protection upon said inventions to the ASSIGNEE or to such nominees as it may designate;

AND ASSIGNOR does hereby authorize and empower the ASSIGNEE or nominees to invoke and claim for any application for such Letters Patent or other grants of protection for said inventions filed by it or them the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by a convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from such ASSIGNOR;

AND ASSIGNOR does hereby transfer and convey, and hereby set over unto ASSIGNEE, its successors, assigns and legal representatives, all income, royalties, damages and payments due or

payable to ASSIGNOR as of the Effective Date or thereafter, including, but not limited to, all claims for damages by reason of past, present or future infringement or other unauthorized use of the inventions, patent applications or patents assigned hereunder, together with the right to sue for and collect the same;

AND ASSIGNOR does hereby consent that a copy of this Confirmatory Patent Assignment shall be deemed a full and formal equivalent of any assignment, consent to file or like document which may be required in any country or region for any purpose and more particularly in proof of the right of the ASSIGNEE or nominees to claim the aforesaid benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it;

AND ASSIGNOR does hereby covenant that such ASSIGNOR has the full right to convey the entire right, title and interest herein assigned and that such ASSIGNOR has not executed and will not execute any agreement in conflict herewith;

AND ASSIGNOR does hereby covenant and agree that such ASSIGNOR will communicate to the ASSIGNEE or nominees all facts known to such ASSIGNOR concerning the inventions, and testify in all legal proceedings, sign all lawful papers, execute all divisional, continuing, substitute and reissue applications, make all rightful oaths and declarations and in general perform all lawful acts necessary or proper to aid the ASSIGNEE or nominee in obtaining, maintaining and enforcing all patents and other grants of protection for the inventions in any and all countries and regions;

AND ASSIGNOR does hereby confirm that this Confirmatory Patent Assignment is effective as of the Effective Date.

{Remainder of page intentionally left blank; signature page follows}

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 6 day of

Jun, 2017.

ASSIGNOR: Biogenia Reagents, LLC

By: [Signature]

Name: James A. Mennell

Title: Chief Executive Officer

STATE OF MN §

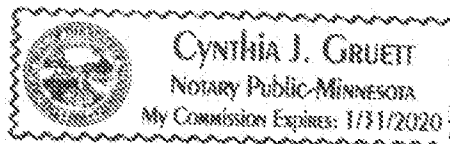
COUNTY OF Anoka §

On this 6th day of June, 2017, before me, a Notary Public in and for the State and County aforesaid, personally appeared James A. Mennell, known to me to be the person of that name, who signed and sealed the foregoing instrument, and he acknowledged the same to be his free act and deed on behalf of said Assignor.

Cynthia J. Gruett

Notary Public, State of Minnesota

My Commission Expires: 1/31/20



SCHEDULE A
TO
CONFIRMATORY PATENT ASSIGNMENT

Title of Invention	Country	App. No.	Filing Date	Pat. No.	Date Issued	Status
Carbon Micro-Plant	US	61/928,100	1/16/2014			Expired
Carbon Micro-Plant	PCT	PCT/US15/11787	1/16/2015			Expired
Carbon Micro-Plant	BR	BR1120160165527	1/16/2015			Pending
Carbon Micro-Plant	CA					Unfiled
Carbon Micro-Plant	EP	15737937	1/16/2015			Pending
Carbon Micro-Plant	MX	MX/a/2016/009270	1/16/2015			Pending
Carbon Micro-Plant	US	14/599,020	1/16/2015	9,475,031	10/25/2016	Issued
Carbon Micro-Plant	US	14/599,058	1/16/2015			Pending
Carbon Micro-Plant	US	14/599,089	1/16/2015			Allowed
Biogenic Coal Replacement Product	US	61/475,930	4/15/2011			Expired
Biogenic Coking Carbon Product	US	61/475,937	4/15/2011			Expired
Biogenic Fluidized Bed Product	US	61/475,943	4/15/2011			Expired
Biogenic Stoker Carbon Product	US	61/475,946	4/15/2011			Expired
Biogenic Carbon Breeze Blast Furnace Addition Product	US	61/475,949	4/15/2011			Expired
Biogenic Ladle Addition Product	US	61/475,956	4/15/2011			Expired

Title of Invention	City	App. No.	Filing Date	Pat. No.	Date Issued	Status
Biogenic Carbon Breeze Taconite Pellet Addition Product	US	61/475,959	4/15/2011			Expired
Biogenic Injectable Carbon Product	US	61/475,968	4/15/2011			Expired
Biogenic Furnace Addition Product	US	61/475,971	4/15/2011			Expired
Process for Producing A High Carbon Biogenic Reagent	US	61/475,973	4/15/2011			Expired
High Carbon Biogenic Reagent	US	61/475,977	4/15/2011			Expired
System For Production of Biogenic Reagent	US	61/475,981	4/15/2011			Expired
Material Enrichment Unit	US	61/475,991	4/15/2011			Expired
Material Feed System	US	61/475,996	4/15/2011			Expired
Biogenic Met Coke Product	US	61/476,025	4/15/2011			Expired
Biogenic Pulverized Carbon Product	US	61/476,043	4/15/2011			Expired
Biogenic Carbon Anode	US	61/476,049	4/15/2011			Expired
Processes for Producing High-Carbon Biogenic Reagents	PCT	PCT/US2012/053630	4/13/2012			Expired
Processes for Producing High-Carbon Biogenic Reagents	IN	8964/DELNP/2013	4/13/2012			Pending
Processes for Producing High-Carbon Biogenic Reagents	BR	BR1120130265531	4/13/2012			Pending
Processes for Producing High-Carbon Biogenic Reagents	CA	2833179	10/11/2013			Pending
Processes for Producing High-Carbon Biogenic Reagents	EP	2012771449	10/15/2013			Pending

Title of Invention	City	App. No.	Filing Date	Pat. No.	Date Issued	Status
Processes for Producing High-Carbon Biogenic Reagents	Japan	2014505366	10/11/2013			Abandoned
Process For Producing High-Carbon Biogenic Reagents	US	14/111,226	12/4/2013	9,388,333	7/12/2016	Issued
Processes For Producing High-Carbon Biogenic Reagents	US	15/180,650	6/13/2016			Pending
Systems and Apparatus For Production of High-Carbon Biogenic Reagents	PCT	PCT/US2012/033628	4/13/2012			Expired
Systems and Apparatus For Production of High-Carbon Biogenic Reagents	CA	2833286	10/11/2013			Pending
Systems and Apparatus For Production of High-Carbon Biogenic Reagents	IN	8969/DELNP/2013	4/13/2012			Pending
Systems and Apparatus For Production of High-Carbon Biogenic Reagents	JP	2014505364	10/11/2013			Withdrawn
Systems and Apparatus For Production of High-Carbon Biogenic Reagents	JP	2017-36139	4/13/2012			Pending
Systems And Apparatus For Production of High-Carbon Biogenic Reagents	US	14/111,281	12/4/2013	9,388,046	7/12/2016	Issued
Systems and Apparatus for Production of High-Carbon Biogenic Reagents	US	15/180,763	6/13/2016			Pending
High-Carbon Biogenic Reagents And Uses Thereof	US	13/446,764	4/13/2012	8,920,525	12/30/2014	Issued
High-Carbon Biogenic Reagents And Uses Thereof	PCT	PCT/US12/33624	4/13/2012			Expired
High-Carbon Biogenic Reagents And Uses Thereof	BR	BR1120130254659	4/13/2012			Pending
High-Carbon Biogenic Reagents And Uses Thereof	CA	2833284	10/11/2013			Pending
High-Carbon Biogenic Reagents And Uses Thereof	EP	2012771330	10/15/2013			Pending

Title of Invention	City	App. No.	Filing Date	Pat. No.	Date Issued	Status
High-Carbon Biogenic Reagents And Uses Thereof	IN	8965/DELNP/2013	4/13/2012			Pending
High-Carbon Biogenic Reagents And Uses Thereof	JP	2014505361	10/11/2013			Abandoned
High-Carbon Biogenic Reagents And Uses Thereof	US	14/548,874	11/20/2014			Pending
Highly Mesoporous Activated Carbon	US	61/943,565	2/24/2014			Expired
Highly Mesoporous Activated Carbon	PCT	PCT/US15/17351	2/24/2015			Expired
Highly Mesoporous Activated Carbon	CA					Unfiled
Highly Mesoporous Activated Carbon	EP	2015752741	9/12/2016			Published
Highly Mesoporous Activated Carbon	US	14/639,331	2/24/2015			Abandoned
Highly Mesoporous Activated Carbon	US	15/172,358	6/3/2016			Pending
Methods and Apparatus For Enhancing The Energy Content Of Carbonaceous Materials From Pyrolysis	PCT	PCT/US12/33627	4/13/2012			Expired
Methods and Apparatus For Enhancing The Energy Content Of Carbonaceous Materials From Pyrolysis	CA	2833285	10/11/2013			Pending
Methods and Apparatus For Enhancing The Energy Content Of Carbonaceous Materials From Pyrolysis	JP	2014505363	10/11/2013			Abandoned
Methods and Apparatus For Enhancing The Energy Content Of Carbonaceous Materials From Pyrolysis	US	14/111,240	12/4/2013			Pending
Biogenic Activated Carbon and Methods of Making and Using Same	US	61/643,741	5/7/2012			Expired

Title of Invention	City	App. No.	Filing Date	Pat. No.	Date Issued	Status
Biogenic Activated Carbon and Methods of Making and Using Same	US	61/721,827	11/2/2012			Expired
Biogenic Activated Carbon and Methods of Making and Using Same	US	61/737,314	12/14/2012			Expired
Biogenic Activated Carbon and Methods of Making and Using Same	PCT	PCT/US13/39981	5/7/2013			Expired
Biogenic Activated Carbon and Methods of Making and Using Same	BR	BR1120140279780	5/7/2013			Pending
Biogenic Activated Carbon and Methods of Making and Using Same	CA	2873040	11/7/2014			Pending
Biogenic Activated Carbon and Methods of Making and Using Same	EP	13787003.6	5/7/2013			Published
Biogenic Activated Carbon and Methods of Making and Using Same	IN	9442/DELNP/2014	5/7/2013			Pending
Biogenic Activated Carbon and Methods of Making and Using Same	JP	2013511633	11/6/2014			Pending
Biogenic Activated Carbon and Methods of Making and Using Same	MX	MX/a/2014/013561	5/7/2013			Pending
Biogenic Activated Carbon and Methods of Making and Using Same	PCT	PCT/US13/39991	5/7/2013			Expired
Biogenic Activated Carbon and Methods of Making and Using Same	EP	2013788357	12/3/2014			Pending
Biogenic Activated Carbon and Methods of Making and Using Same	JP	2013511635	11/6/2014			Pending
Biogenic Activated Carbon and Methods of Making and Using Same	PCT	PCT/US13/39986	5/7/2013			Expired
Biogenic Activated Carbon and Methods of Making and Using Same	EP	13787148.9	5/7/2013			Pending

Title of Invention	Ctry	App. No.	Filing Date	Pat. No.	Date Issued	Status
Biogenic Activated Carbon and Methods of Making and Using Same	JP	2015511634	11/6/2014			Pending
Biogenic Activated Carbon and Methods of Making and Using Same	US	14/399,793	11/7/2014			Pending
Methods and Apparatus For Producing Activated Carbon From Biomass Through Carbonized Ash Intermediates	US	61,895,381	10/24/2013			Expired
Methods and Apparatus For Producing Activated Carbon From Biomass Through Carbonized Ash Intermediates	US	14/523,358	10/24/2014			Pending
Methods and Apparatus For Producing Activated Carbon From Biomass Through Carbonized Ash Intermediates	PCT	PCT/US14/62202	10/24/2014			Pending