

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT6091436

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
Mark Sunderland	06/03/2019
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	Thomas Jefferson University
<b>Street Address:</b>	1020 Walnut Street
<b>City:</b>	Philadelphia
<b>State/Country:</b>	Pennsylvania
<b>Postal Code:</b>	19107
<b>PROPERTY NUMBERS Total: 2</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16860008
<b>PCT Number:</b>	US2020030154
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<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>Email:</b>	patents@vos-ip.com, kevin@vos-ip.com
<b>Correspondent Name:</b>	KEVIN DAUG
<b>Address Line 1:</b>	1600 MARKET STREET, SUITE 2600
<b>Address Line 4:</b>	PHILADELPHIA, PENNSYLVANIA 19103
<b>ATTORNEY DOCKET NUMBER:</b>	ECO01.0007.100/500
<b>NAME OF SUBMITTER:</b>	KEVIN DAUG
<b>SIGNATURE:</b>	/Kevin Daug/
<b>DATE SIGNED:</b>	05/05/2020
<b>Total Attachments: 3</b>	
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**ASSIGNMENT**

WHEREAS, I, Mark Sunderland of Philadelphia, Pennsylvania, USA, hereinafter referred to as the assignor, am an inventor of certain inventions or improvements for which I have made application for Letters Patent to the United States Patent Office, identified as U.S. Provisional Patent Application No. 62/838,966, filed April 26, 2019 entitled "SUSTAINABLE BIO-CHAR BASED INK HAVING CONDUCTIVE PROPERTIES".

WHEREAS, Thomas Jefferson University, hereinafter referred to as the assignee, of 1020 Walnut Street, Philadelphia, Pennsylvania 19107, USA is desirous of acquiring the entire right, title and interest in and to the said inventions or improvements and in and to the said applications, and in, to and under any and all Letters Patents which may be granted on or as a result thereof in any and all countries.

NOW, THEREFORE, for and in consideration of the sum of One Dollar (\$1.00) to me in hand paid by said assignee, and other good and valuable consideration, the receipt of which is hereby acknowledged, I, the said assignor, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over to said assignee, my entire right, title and interest in and to said inventions or improvements and said applications and any and all continuations, continuations-in-part, divisionals and renewals of and substitutes for said applications, including any reissue or continuation, continuation-in-part or divisional therefrom, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in the United States and any and all other countries, and any reissue or reissues or extension or extensions of said Letters Patent, and assign to and authorize said assignee, to file in my name applications for Letters Patent in all countries, the same to be held and enjoyed by said assignee, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patents respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by me had this assignment, sale and transfer not been made.

AND I hereby covenant that I have full right to convey my entire interest herein assigned, and that I have not executed and will not execute any agreement in conflict herewith, and I further covenant and agree that I will each time request is made and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said inventions or improvements, said applications and said Letters Patent to said assignee, its successors, assigns, nominees or legal representatives, and I agree to communicate to said assignee or to its nominee all known facts respecting said inventions or improvements, said applications and said Letters Patent, to testify in any legal proceedings, to sign all lawful papers, to execute all disclaimers and divisional, continuing, reissue and foreign applications, to make all rightful oaths, and generally to do everything possible to aid said assignee, its successors, assigns, nominees and legal representatives to obtain and enforce for its or their own benefit proper patent protection for said inventions or improvements in any and all countries.

**SUSTAINABLE BIO-CHAR BASED INK HAVING CONDUCTIVE PROPERTIES PATENT**  
**DOCKET No.: ECO01.0007.001**

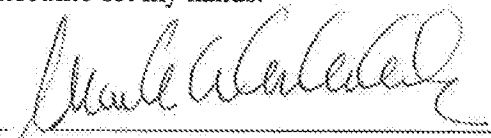
AND I hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States whose duty it is to issue Letters Patent on applications as aforesaid, to issue to said assignee, as assignee of my entire right, title and interest, any and all Letters Patent for said inventions or improvements, including any and all Letters Patent of the United States which may be issued and granted on or as a result of the applications aforesaid, in accordance with the terms of this assignment.

AND this Assignment may be executed in multiple counterparts, each of which shall be deemed to be an original of this Assignment. Additionally, I hereby authorize my attorneys to collect the signature pages of each executed counterpart and to attach those signature pages to a single copy of this instrument, which single copy and attached signature pages together shall constitute an original of this Assignment.

This assignment is effective as of April 26, 2019.

IN WITNESS WHEREOF, I have hereunto set my hands.

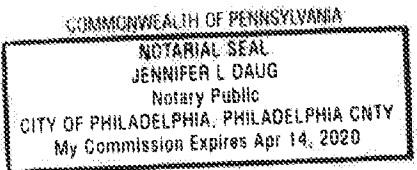
Dated: June 3, 2019

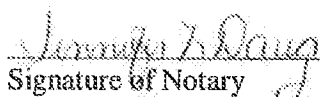
  
\_\_\_\_\_  
Mark Sunderland  
MARK A. SUNDERLAND

State of Pennsylvania

County of Philadelphia

On this 3<sup>rd</sup> day of June, 2019, before me, the undersigned, a Notary Public for the state, personally appeared Mark Sunderland, personally known to me/proven to me on the basis of satisfactory evidence to be the person who subscribed the foregoing Assignment and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the Assignment the person, or the entity on behalf of which the person acted, executed the Assignment.



  
\_\_\_\_\_  
Signature of Notary

SUSTAINABLE BIO-CHAR BASED INK HAVING CONDUCTIVE PROPERTIES PATENT  
DOCKET No.: ECO01.0007.001

This assignment is accepted on behalf of Thomas Jefferson University by:

Dated: Nov 8, 2019 

Robin Sheldon  
Print Name

SVP, Jefferson Strategic Ventures  
Print Title