

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5514088

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the NAME OF THE FIRST INVENTOR previously recorded on Reel 049088 Frame 0638. Assignor(s) hereby confirms the NAME OF THE FIRST INVENTOR IS IULIAN BOBE.
CONVEYING PARTY DATA	
Name	Execution Date
IULIAN BOBE	08/21/2015
SANDEEP KUMAR	08/20/2015
IGOR KOSTENYUK	05/08/2015
FLORIN BARLA	08/18/2015
PETER MAJERANOWSKI	08/25/2015
RECEIVING PARTY DATA	
Name:	TYTON BIOSCIENCES, LLC
Street Address:	DAN RIVER BUSINESS DEVELOPMENT CENTER
Internal Address:	300 RINGGOLD INDUSTRIAL PARK
City:	DANVILLE
State/Country:	VIRGINIA
Postal Code:	24540
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16402784
CORRESPONDENCE DATA	
Fax Number:	(919)882-8195
<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>	
Phone:	9193482194
Email:	docket@nkpatentlaw.com
Correspondent Name:	NK PATENT LAW
Address Line 1:	4917 WATERS EDGE DRIVE
Address Line 2:	SUITE 275
Address Line 4:	RALEIGH, NORTH CAROLINA 27606
ATTORNEY DOCKET NUMBER:	448/10/2 UTIL
NAME OF SUBMITTER:	DONNA M. DONOVAN
SIGNATURE:	/Donna M. Donovan/

DATE SIGNED:	05/09/2019
Total Attachments: 10 source=448-10-2UTIL-20190507-Assignment #1-RecNotice-Binder#page1.tif source=448-10-2UTIL-20190507-Assignment #1-RecNotice-Binder#page2.tif source=448-10-2UTIL-20190507-Assignment #1-RecNotice-Binder#page3.tif source=448-10-2UTIL-20190507-Assignment #1-RecNotice-Binder#page4.tif source=448-10-2UTIL-20190507-Assignment #1-RecNotice-Binder#page5.tif source=448-10-2UTIL-20190507-Assignment #1-RecNotice-Binder#page6.tif source=448-10-2UTIL-20190507-Assignment #1-RecNotice-Binder#page7.tif source=448-10-2UTIL-20190507-Assignment #1-RecNotice-Binder#page8.tif source=448-10-2UTIL-20190507-Assignment #1-RecNotice-Binder#page9.tif source=448-10-2UTIL-20190507-Assignment #1-RecNotice-Binder#page10.tif	

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5508051

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
IUIIAN BOBE	08/21/2015
SANDEEP KUMAR	08/20/2015
IGOR KOSTENYUK	05/08/2015
FLORIN BARLA	08/18/2015
PETER MAJERANOWSKI	08/25/2015
RECEIVING PARTY DATA	
Name:	TYTON BIOSCIENCES, LLC
Street Address:	DAN RIVER BUSINESS DEVELOPMENT CENTER
Internal Address:	300 RINGGOLD INDUSTRIAL PARK
City:	DANVILLE
State/Country:	VIRGINIA
Postal Code:	24540
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16402784
CORRESPONDENCE DATA	
Fax Number:	(919)882-8195
<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>	
Phone:	919-348-2194
Email:	docket@nkpatentlaw.com
Correspondent Name:	NK PATENT LAW
Address Line 1:	4917 WATERS EDGE DRIVE
Address Line 2:	SUITE 275
Address Line 4:	RALEIGH, NORTH CAROLINA 27606
ATTORNEY DOCKET NUMBER:	448/10/2 UTIL
NAME OF SUBMITTER:	DONNA M. DONOVAN
SIGNATURE:	/Donna M. Donovan/
DATE SIGNED:	05/06/2019

DECLARATION AND ASSIGNMENT OF RIGHTS

WHEREAS, the undersigned, Iulian Bobe, Sandeep Kumar, Igor Kostenyuk, Florin Barla, and Peter Majeranowski, (hereinafter "Assignor") has invented certain new and useful improvements described in the applications identified in Table I.

AND, WHEREAS, Tyton Biosciences, LLC, having an address of Dan River Business Development Center, 300 Ringgold Industrial Parkway, Danville VA24540 (hereinafter "Assignee"), has already acquired an interest in the applications identified in Table I by and through an employment or other agreement between Assignor and Assignee. Assignor further authorizes an agent of the Assignee to insert the filing date, application number, and any other identifying particulars as required for perfecting these assignment papers.

However, in the avoidance of doubt and as confirmation of the already acquired interest by Assignee, NOW, THEREFORE, To Whom It May Concern, be it known that for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignor has assigned and by these presents does hereby sell, assign, transfer, and convey unto the Assignee, its successors and assigns, his entire right, title, and interest in and to the invention and application, including the right to sue for past infringements and any other prior occurring rights, provided any such rights exist, and in and to any and all domestic and foreign patent applications filed on the invention, and in and to any and all continuations, continuations-in-part, or divisions thereof, and in and to any and all Letters Patent of the United States of America, and all foreign countries or reissues thereof which may be granted therefor or thereon, for the full end of the term for which said Letters Patent may be granted, together with his right to claim the priority of said application in all foreign countries in accordance with the International Convention, the same to be held and enjoyed by said Assignee, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by Assignor if this assignment and sale had not been made. Assignor further assigns to Assignee the right to claim entitlement and/or priority to any applications that entitlement or priority may be claimed for this or any later filed application, including the assignment of any provisionals or other priority documents to which the inventions claim priority to. The assignment of the right to claim entitlement and/or priority is executed *nunc pro tunc* and is considered effective as of the filing date of the earliest application to which priority and/or entitlement is claimed.

Assignor hereby requests that said Letters Patent be issued in accordance with this assignment.

Assignor further covenants and agrees that, at the time of the execution and delivery of these presents, Assignor possesses full title to the invention and application above-mentioned, and that he has the unencumbered right and authority to make this assignment.

Assignor further covenants and agrees, and likewise binds his heirs, legal representatives and assigns, to promptly communicate to said Assignee or its representatives any facts known to him relating to said invention, to testify in any interference or legal proceedings involving said invention, to execute any additional papers which may be requested to confirm the right of the Assignee, its representatives, successors and assigns to secure patent or similar protection for the said invention in all countries and to vest in the Assignee complete title to the said invention and Letters Patent, without further compensation, but at the expense of said Assignee, its successors, assigns and other legal representatives.

Furthermore, as a below named inventor (hereinafter designated as the undersigned or the Assignor, where appropriate), I hereby declare that:

The application is as identified by the attorney docket number, title, Filing Date, or Application Title as set forth in the following Table I.

The application in Table I was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the applications in Table I.

The undersigned hereby acknowledged that any willful false statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or imprisonment of not more than five (5) years, or both

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TABLE I

Application Number	Attorney Docket Number	Filing Date	Title
62/174,478	448/10 PROV	06/11/2015	Modular System for Industrial Processing of Tobacco Biomass and Agricultural Waste and Byproducts via Subcritical Water Assisted Hydrolysis for Sugar and Oil Extraction

Executed this 21th day of August, 2015



Iulian Bobe

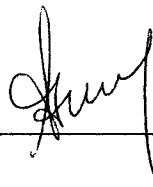
Executed this ____ day of _____, 2015

Sandeep Kumar

Executed this ____ day of _____, 2015

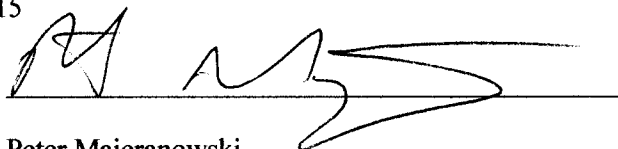
Igor Kostenyuk

Executed this 18th day of August, 2015



Florin Barla

Executed this 25th day of August, 2015



Peter Majeranowski

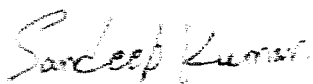
TABLE I

Application Number	Attorney Docket Number	Filing Date	Title
62/174,478	448/10 PROV	06/11/2015	Modular System for Industrial Processing of Tobacco Biomass and Agricultural Waste and Byproducts via Subcritical Water Assisted Hydrolysis for Sugar and Oil Extraction

Executed this ____ day of _____, 2015

Iulian Bobe

Executed this 20th day of August, 2015



Sandeep Kumar

Executed this ____ day of _____, 2015

Igor Kostenyuk

Executed this ____ day of _____, 2015

Florin Barla

Executed this ____ day of _____, 2015

Peter Majeranowski

PATENT

Atty. Docket No.: 448

ASSIGNMENT

WHEREAS, I, Igor Kostenyuk, City of Danville,
State of VIRGINIA (hereinafter "Assignor"), have made, conceived, reduced to
practice, or written wholly or in part, either alone or jointly with others, while employed by
Tyton BioSciences, LLC or while serving as an executive of Tyton BioSciences, LLC, or under
an obligation of assignment to Tyton Biosciences, LLC, certain new and useful developments,
improvements, ideas, discoveries, processes, methods, techniques, and inventions related to the
business or actual or demonstrably anticipated research or development of Tyton BioSciences,
LLC, a Virginia organization having its principal office and place of business at Dan River
Business Development Center, 300 Ringgold Industrial Parkway, Danville VA24540 (hereinafter
"Assignee") (collectively "Inventions").

Whereas, Assignee has applied or will apply for letters patent and to letters patent
granted upon such Inventions, whether in the U.S. or in a foreign country, and which
Inventions relate in any way to the actual or anticipated business or research or development of
Assignee, or which are suggested by or result from any work performed by me for or on behalf
of Assignee, whether or not such Inventions were made, conceived, reduced to practice, written
or acquired during normal hours of work or using Assignee's facilities. One or more patent
applications having Application No. 62/174,478 filed on 06/11/2015
titled: "Modular System for Industrial Processing of Tobacco Biomass and Agricultural Waste
and Byproducts via Subcritical Water Assisted Hydrolysis for Sugar and Oil Extraction"
will be filed on such filing date for the Inventions in the name of Assignee. Assignor hereby
authorizes the attorney of Assignee's choosing to insert the title, serial number, filing date, and
any other particulars of any applications subject to this assignment once the same is known.

AND, WHEREAS, Assignee is desirous of acquiring an interest therein or confirming the
receipt of their interest therein.

NOW, THEREFORE, To Whom It May Concern, be it known that for good and valuable
consideration, the receipt and sufficiency of which are hereby acknowledged, Assignor has

PATENT

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assigned and by these presents does hereby sell, assign, transfer, and convey unto the Assignee, its successors and assigns, his entire right, title, and interest in and to the Inventions and applications, including the right to sue for past infringements, provided any such rights exist, and in and to any and all domestic and foreign patent applications filed on the invention, and in and to any and all continuations, continuations-in-part, or divisions thereof, and in and to any and all Letters Patent of the United States of America, and all foreign countries or reissues thereof which may be granted therefor or thereon, for the full end of the term for which said Letters Patent may be granted, together with his right to claim the priority of said application in all foreign countries in accordance with the International Convention, the same to be held and enjoyed by said Assignee, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by Assignor if this assignment and sale had not been made. Assignor further assigns to Assignee the right to claim entitlement and/or priority to any applications that entitlement or priority may be claimed for these or any later filed applications. The assignment of the right to claim entitlement and/or priority is executed *nunc pro tunc* and is considered effective as of the filing date of the earliest application to which priority and/or entitlement is claimed.

Assignor hereby requests that said Letters Patent be issued in accordance with this assignment.

Assignor further covenants and agrees that, at the time of the execution and delivery of these presents, Assignor possesses full title to the invention and application above-mentioned, and that he has the unencumbered right and authority to make this assignment.

Assignor further covenants and agrees, and likewise binds his heirs, legal representatives and assigns, to promptly communicate to said Assignee or its representatives any facts known to him relating to said invention, to testify in any interference or legal proceedings involving said invention, to execute any additional papers which may be requested to confirm the right of the Assignee, its representatives, successors and assigns to secure patent or similar protection for the said invention in all countries and to vest in the Assignee complete title to the said invention and Letters Patent, without further compensation, but at the expense of said Assignee, its successors, assigns and other legal representatives.

-----Signature page follows-----

Atty. Docket No.: 448

Executed this 8th day of May, 2015

By: [Signature]

Print Name: IGOR KOSTENYUK

State of Virginia

County of Pittsylvania

On 05/08/2015, before me, Angela H. Walker,
(date) (notary)

personally appeared, Igor Kostenyuk,
(Signer(s))

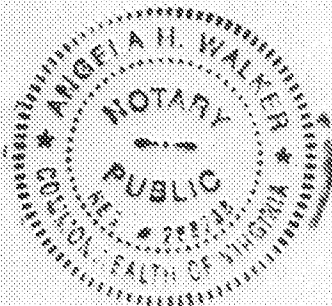
personally known to me or proved to me on the basis of satisfactory evidence to be the person(s)
whose name(s) is/are subscribed to the within instrument and acknowledged to me that
he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their
signature(s) on the instrument the person(s) or the entity upon behalf of which the person(s)
acted, executed the instrument

WITNESS my hand and official seal

(seal)

[Signature]
(notary signature) Reg # 28238

My Commission Expires 02/29/2016



- 3 of 3 -