

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT3610368

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
STEPHEN H. LUCAS	10/03/2015
PETER G. TIVERIOS	10/07/2015
LEWIS L. RICH	10/08/2015
RECEIVING PARTY DATA	
Name:	FULCRUM BIOENERGY, INC.
Street Address:	4900 HOPYARD ROAD
Internal Address:	SUITE 220
City:	PLEASANTON
State/Country:	CALIFORNIA
Postal Code:	94588
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	14842729
CORRESPONDENCE DATA	
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ATTORNEY DOCKET NUMBER:	051955-021
NAME OF SUBMITTER:	ROBERT E. KREBS
SIGNATURE:	/Robert E. Krebs/
DATE SIGNED:	11/10/2015
Total Attachments: 5	
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ASSIGNMENT

WHEREAS, we, *Stephen H. Lucas*, a citizen of the U.S., residing in *Foristell, MO*; *Peter G. Tiverios*, a citizen of the U.S., residing in, *Anderson, SC*; and *Lewis L. Rich*, a citizen of the U.S., residing in, *Seneca, SC*, have invented a “***PROCESSES FOR PRODUCING HIGH BIOGENIC CONCENTRATION FISCHER-TROPSCH LIQUIDS DERIVED FROM MUNICIPAL SOLID WASTES (MSW) FEEDSTOCKS***” for which we have executed application papers for a U.S. patent thereon, which was filed on *September 1, 2015*, serial no. 14/842,729; and

WHEREAS, Fulcrum BioEnergy, Inc. a *Delaware* Corporation, having a place of business located at 4900 Hopyard Road, Suite 220, Pleasanton, CA 94588, is desirous of acquiring the exclusive right, title and interest in and to said invention and in and to the Letters Patent to be granted and issued therefor in the United States of America and its territories and possessions, and all countries foreign thereto;

NOW, THEREFORE, for a valuable consideration, the receipt of which is hereby acknowledged, we, *Stephen H. Lucas*, *Peter G. Tiverios*, and *Lewis L. Rich*, do sell, assign, transfer and set over unto said Fulcrum BioEnergy, Inc., its successors and assigns, the full and exclusive right, title and interest in and to said invention, and in and to any and all Letters Patent to be granted and issued therefor, not only for, to and in the United States of America, its territories and possessions, but also for, to and in all other countries including all priority rights under the International Convention, in any or all continuation, continuation-in-part, divisional and/or converted utility and design patent applications and resulting Letters Patents together with any back damages and royalties accrued; and we hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to said Fulcrum BioEnergy, Inc., its successors and assigns, in accordance with this Assignment.

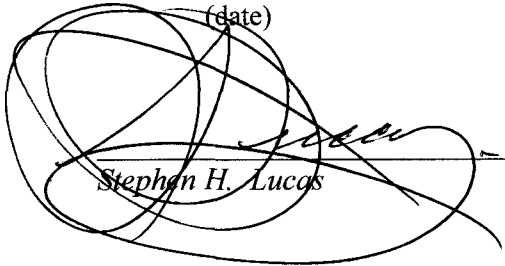
The undersigned hereby grant(s) the firm of Nixon Peabody LLP, 2 Palo Alto Square, 3000 El Camino Real, Suite 500, Palo Alto, CA 94306 the power to insert on this assignment any further identification, including the application number and filing date, which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

[ASSIGNMENT CONTINUATION]

Re: U.S. Patent Application entitled: **PROCESSES FOR PRODUCING HIGH BIOGENIC CONCENTRATION FISCHER-TROPSCH LIQUIDS DERIVED FROM MUNICIPAL SOLID WASTES (MSW) FEEDSTOCKS**

Inventor: *Stephen H. Lucas*

WITNESS MY HAND at WENTZVILLE MO, this
(city, state)
03 day of OCTOBER, 2015.
(date) (month) (year)



Stephen H. Lucas

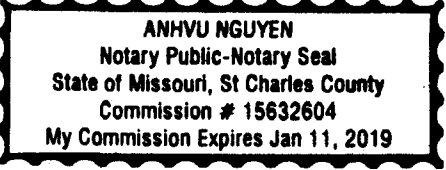
State of ~~California~~ MISSOURI)
)
County of ST. CHARLES) ss.

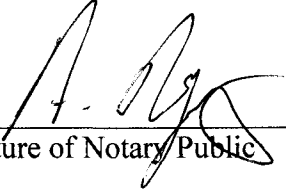
On 10/3/15 before me, ANHUU NGUYEN, a Notary Public, personally appeared STEPHEN LUCAS, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized 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.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

[Affix seal here]





Signature of Notary Public

[ASSIGNMENT CONTINUATION]

Re: U.S. Patent Application entitled: **PROCESSES FOR PRODUCING HIGH BIOGENIC CONCENTRATION FISCHER-TROPSCH LIQUIDS DERIVED FROM MUNICIPAL SOLID WASTES (MSW) FEEDSTOCKS**

Inventor: *Peter G. Tiverios*

KRH

WITNESS MY HAND at Anderson, South Carolina this 10 day of 7, 2015
(city, state) (date) (month) (year)

Peter G. Tiverios
Peter G. Tiverios

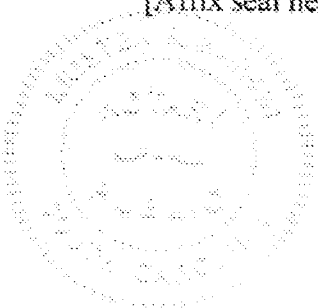
State of ~~California~~ South Carolina)
County of Anderson) ss.

On 10/7/15 before me, Kristen R. Harbin, a Notary Public, personally appeared Peter G. Tiverios who 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.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

[Affix seal here]



Kristen R. Harbin
Signature of Notary Public

[ASSIGNMENT CONTINUATION]

Re: U.S. Patent Application entitled: **PROCESSES FOR PRODUCING HIGH BIOGENIC CONCENTRATION FISCHER-TROPSCH LIQUIDS DERIVED FROM MUNICIPAL SOLID WASTES (MSW) FEEDSTOCKS**

Inventor: *Lewis L. Rich*

WITNESS MY HAND at CLEMSON, SOUTH CAROLINA, this
(city, state)
08 day of OCTOBER, 2015.
(date) (month) (year)

Lewis L. Rich
Lewis L. Rich

^{SOUTH CAROLINA}
State of ~~California~~)
County of PICKENS) ss.

On 10/8/2015 before me, CHRISTOPHER STONE, a Notary Public, personally appeared LEWIS L RICH, who 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.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

[Affix seal here]

CHRISTOPHER STONE
Notary Public, State of South Carolina
My Commission Expires 6/16/2021

Christopher Stone
Signature of Notary Public