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| PATENT ASSIGNMENT COVER SHEET |
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Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4652485

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| ROBERT WOOLEY | 03/31/2015 |
| STEVEN LYTHGOE | 06/22/2015 |
| JOSE GUIMARAES | 03/19/2015 |
| MICHAEL MCINTYRE | 04/08/2015 |
| LANNY ROBBINS | 06/19/2015 |
| RECEIVING PARTY DATA | |
| Name: | GEVO, INC. |
| Street Address: | 345 INVERNESS DRIVE SOUTH |
| Internal Address: | BUILDING C, SUITE 310 |
| City: | ENGLEWOOD |
| State/Country: | COLORADO |
| Postal Code: | 80112 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 14411832 |
| CORRESPONDENCE DATA | |
| Fax Number: | (202)842-7800 |
| <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: | 2028427800 |
| Email: | zpatdcdocketing@cooley.com, mcole@cooley.com |
| Correspondent Name: | COOLEY LLP |
| Address Line 1: | 1299 PENNSYLVANIA AVENUE, NW |
| Address Line 2: | SUITE 700 |
| Address Line 4: | WASHINGTON, D.C. 20004 |
| ATTORNEY DOCKET NUMBER: | GEVO-084/02US 310142-2467 |
| NAME OF SUBMITTER: | WILLIAM E. BROW |
| SIGNATURE: | /William E. Brow/ |
| DATE SIGNED: | 10/23/2017 |

Total Attachments: 9

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ASSIGNMENT

*5757 Enchanted Forest Sak
Senford MI 48642*

WOOLEY, Robert, residing at 408 Deadman Gulch Road, Golden, CO 80401, **LYTHGOE, Steven**, residing at 12 Village Court, Littleton, CO 80123, **GUIMARAES, Jose**, residing at 48 Mountain View Avenue, Long Valley, NJ 07853, **MCINTYRE, Michael**, residing at 6388 West Portland Avenue, Littleton, CO 80128, and **ROBBINS, Lanny**, residing at ~~410 East Old Pine Trail, Midland, MI 48642~~ (each referred to as "Assignor") have made an invention(s) (the "Invention(s)") set forth in an application for patent of the United States, entitled **METHOD FOR PURIFICATION OF ALCOHOLS**, and which is a:

- (1) provisional application
 - (a) to be filed herewith; or
 - (b) bearing Application No. , and filed on ;
- (2) non-provisional application
 - (a) to be filed herewith; or
 - (b) bearing Application No. 14/411,832, and filed on December 29, 2014; and/or
- (3) PCT application
 - (a) bearing Application No. , and filed on .

WHEREAS, Gevo, Inc., a corporation duly organized under and pursuant to the laws of Colorado, and having its principal place of business at 345 Inverness Drive South, Building C, Suite 310, Englewood, CO 80112 (the "Assignee"), is desirous of acquiring the entire right, title, and interest in: the Invention(s); the application(s) for patent identified in paragraph (1), (2) and/or (3); the right to file applications for patent of the United States or other countries on the Invention(s); any application(s) for patent of the United States or other countries claiming priority to, and/or the benefit of, these applications; any provisional or other right to recover damages, including royalties, for prior infringements of these application(s); and any patent(s) of the United States or other countries that may be granted therefor or thereon.

NOW, THEREFORE, for good and sufficient consideration, the receipt of which is hereby acknowledged, and to the extent that the Assignor has not done so already via a prior agreement with the Assignee, or if the Assignor has already done so via a prior agreement with the Assignee then in confirmation of any obligation to do so in said prior agreement, the Assignor has sold, assigned, transferred, and set over, and by these presents does sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns, the Assignor's entire right, title, and interest in:

- (a) the Invention(s);
- (b) the application(s) for patent identified in paragraph (1), (2) and/or (3);

(c) the right to file applications for patent of the United States or other countries on the Invention(s), including all rights under the Hague Convention, the Paris Convention for the Protection of Industrial Property, and under the Patent Cooperation Treaty, and all rights of claiming priority in any country of the world;

(d) any application(s) for patent of the United States or other countries claiming the Invention(s);

(e) any application(s) for patent of the United States or other countries claiming priority to, and/or the benefit of, at least one of the application(s) for patent identified in paragraph (1), (2) and/or (3) or any application(s) for patent claiming the Invention(s), including any substitute application(s), division(s), continuation(s), and continuation(s)-in-part;

(f) any provisional or other right to recover damages, including royalties, for prior infringements of any application for patent identified in the preceding paragraphs (b)-(e); and

(g) any patent(s) of the United States or other countries that may be granted for or on any application for patent identified in the preceding paragraphs (b)-(e), including any reissue(s), reexamination(s), revival(s), renewal(s) and extension(s) of said patent(s).

The above-granted rights, titles, and interests are to be held and enjoyed by the Assignee, for its own use and behalf and the use and behalf of its successors, legal representatives, and assigns, as fully and entirely as the same would have been held and enjoyed by the Assignor had this sale and assignment not been made.

The Assignor hereby represents to the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, or if applicable, at such time said prior agreement was executed, the Assignor is a lawful owner of an undivided interest in the entire right, title, and interest in and to the Invention(s), that the Invention(s) are unencumbered, except, if applicable, by obligation to assign in accordance with said prior agreement, and that the Assignor has good and full right and lawful authority to sell and convey the same in the manner set forth herein, and that Assignor will not make or enter into any assignment, sale, agreement or encumbrance which would conflict with these presents.

The Assignor hereby covenants and agrees to and with the Assignee, its successors, legal representatives, and assigns, that the Assignor will sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done in connection with any and all proceedings for the procurement, maintenance, enforcement and defense of the Invention(s), said application(s), and said patent(s), including interference and derivation proceedings, and any post-grant proceedings (e.g., opposition

proceedings, post-grant reviews, *Inter partes* reviews, supplemental examinations, etc.) without charge to the Assignee, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns.

The Assignor hereby authorizes and requests the attorneys of COOLEY LLP to insert in the spaces provided above the filing date, the application number, and the attorney docket number of the application(s) identified in paragraph (1), (2) and/or (3) when known.

The Assignor hereby requests the Commissioner of Patents to issue said patents of the United States to the Assignee for the sole use and behalf of the Assignee, its successors, legal representatives, and assigns.

Date: 3/31/15

By: [Signature]
WOOLEY, Robert

State of Florida)
County of Levy) ss.

On March 31st, 2015, before me, Shani L. Brinkman,
Notary Public, personally appeared Robert Wooley,
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.

REQUIRED SENTENCE IF NOTARIZED IN CALIFORNIA: 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.

[Signature]
Signature of Notary Public



Place Notary Seal Above

My Commission Expires: July 18, 2017

Date: June 22, 2015

By: *Steven C Lythgoe*
LYTHGOE, Steven

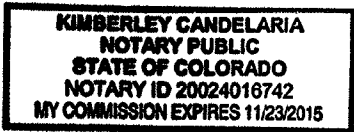
State of Colorado)
 County of Arapahoe) ^{SS.}
 On 6/22/2015, before me, Kim Candelaria,
 Notary Public, personally appeared Steven C Lythgoe,
 who proved to me on the basis of satisfactory evidence, to be the person(s) whose
 name(s) is/are subscribed to the within instrument and acknowledged to me 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.

REQUIRED SENTENCE IF NOTARIZED IN CALIFORNIA: 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.

Kimberley Candelaria
 Signature of Notary Public

My Commission Expires: 11-23-2015



Place Notary Seal Above

Date: March 19, 2015

By: *Jose Celso Guimaraes*
GUIMARAES, Jose

State of NEW JERSEY)
County of ESSEX) ss.

On MARCH 19, 2015, before me, Catherine M. Loreto,
Notary Public, personally appeared Jose Guimaraes,
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.

REQUIRED SENTENCE IF NOTARIZED IN CALIFORNIA: 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.

Catherine M. Loreto

Signature of Notary Public

Place Notary Seal Above

My Commission Expires: _____

CATHERINE M. LORETO
NOTARY PUBLIC OF NEW JERSEY
MY COMMISSION EXPIRES JULY 24, 2018

Date: April 8, 2015

By: McIntyre, Michael
MCINTYRE, Michael

State of Colorado)
County of Larimer) ^{SS.}

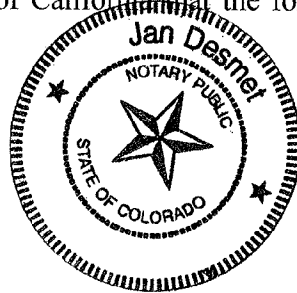
On 4-8-15, before me, Jan Desmet,
Notary Public, personally appeared Michael McIntyre,

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.

REQUIRED SENTENCE IF NOTARIZED IN CALIFORNIA: 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.

Jan Desmet
Signature of Notary Public



Place Notary Seal Above

My Commission Expires: 6-5-2016

Date: 6-19-15

By: Lanny A Robbins
ROBBINS, Lanny

State of Michigan)
County of Midland) ss.

On 6-19-15, before me, Susan K Johnson,
Notary Public, personally appeared Lanny Arnold Robbins,
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.

REQUIRED SENTENCE IF NOTARIZED IN ~~CALIFORNIA~~ ^{Michigan}: I certify under
PENALTY OF PERJURY under the laws of the State of ~~California~~ ^{Michigan} that the foregoing
paragraph is true and correct.

WITNESS my hand and official seal.

SUSEN K. JOHNSON
NOTARY PUBLIC, STATE OF MI, COUNTY OF BAY
ACTING IN MIDLAND COUNTY
MY COMMISSION EXPIRES: JANUARY 24, 2016

Susan K Johnson
Signature of Notary Public

Place Notary Seal Above

My Commission Expires: 1-24-16

Date: _____

By: _____

Name:

Title:

Company: Gevo, Inc.

State of _____)
) ss.

County of _____)

On _____, before me, _____,

Notary Public, personally appeared _____,

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.

REQUIRED SENTENCE IF NOTARIZED IN CALIFORNIA: 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.

Signature of Notary Public

Place Notary Seal Above

My Commission Expires: _____