

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
BRYAN BALS	01/29/2015
FARZANEH TEYMOURI	01/29/2015
TIMOTHY J. CAMPBELL	01/29/2015
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PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	14579377
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SIGNATURE:	/Catherine Fritz/
DATE SIGNED:	02/12/2015
Total Attachments: 5	
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ASSIGNMENT

WHEREAS, we, Bryan Bals, residing at 2620 Marfitt Rd., Apt. 24, East Lansing, MI, 48823, Farzaneh Teymouri, residing at 3619 W. Arbutus Drive, Okemos, MI, 48864, and Timothy J. Campbell, residing at 6053 Horizon Drive, East Lansing, MI, 48823, respectively, have invented jointly with Bruce E. Dale, certain new and useful inventions and improvements which are described in an application for U.S. Letters Patent filed on December 22, 2014, which application was assigned U.S. Patent Application Serial Number 14/579,377, and is entitled METHODS OF HYDROLYZING PRETREATED DENSIFIED BIOMASS PARTICULATES AND SYSTEMS RELATED THERETO;

AND WHEREAS, The Michigan Biotechnology Institute d/b/a MBI (hereinafter "Assignee"), an entity organized and existing under and by virtue of the laws of the State of Michigan, and having an office and place of business at 3815 Technology Boulevard, Lansing, MI 48910 is desirous of acquiring our undivided right, title and interest in and to said inventions, improvements, and applications and in and to any Letters Patent that may be granted therefore in the United States and in any and all foreign countries. Now, therefore, be it known that for GOOD AND VALUABLE CONSIDERATION provided by the Assignee, the receipt and sufficiency whereof is hereby acknowledged. As such, the undersigned does hereby:

SELL, ASSIGN AND TRANSFER unto said Assignee, the entire right, title and interest for the United States and all foreign countries in and to: any and all inventions and improvements which are disclosed in the identified application for U.S. Letters Patent, and which may be further identified below; such application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent which have been or shall be filed in the United States (including all provisional and nonprovisional applications), any International Application filed under applicable treaties and conventions, and any application filed in all foreign countries, on any of such inventions and/or improvements (including any applications for utility models, patents of addition, certificate of addition, and the like); all original and reissued patents which have been or shall be issued in the United States and all foreign countries on such inventions and/or improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty, such as the Paris Convention, and to claim priority based on the identified application(s);

AUTHORIZE AND REQUEST that any attorney associated with U.S. PTO Customer No. 102038 may (directly or through his/her designee) delete, insert, or alter any information identifying this application, or any related application, below, after execution of this Assignment;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such improvements to the Assignee;

ASSIGNMENT

Assignors: Bryan Reis, Farzaneh Teymourian and Timothy J. Campbell

Application Number: 14/579,377

Title: METHODS OF HYDROLYZING PRETREATED DENSIFIED BIOMASS PARTICULATES AND SYSTEMS RELATED THERETO

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WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and/or property herein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned;

COVENANT, that when requested and without compensation, but at the expense of the Assignee, in order to carry out in good faith the intent and purpose of this Assignment, the undersigned will (1) execute all provisional, non-provisional, divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such improvements; (2) execute all rightful oaths, declarations, assignments, powers of attorney and other papers; (3) communicate to the Assignee all facts known to the undersigned relating to such improvements and the history thereof; (4) cooperate with the Assignee in any interference, reexamination, reissue, opposition, dispute, or litigation involving any of the applications or patents for such improvements; and (5) take such further actions as the Assignee shall reasonably consider necessary or desirable for vesting title to such improvements in the Assignee, or for securing, maintaining and enforcing proper patent protection for such improvements;

THIS AGREEMENT IS TO BE BINDING on the heirs, assigns, representatives and successors of the undersigned, and is to extend to the benefit of the successors, assigns and nominees of the Assignee.

AGREED as of the date of my signature below:

ASSIGNMENT

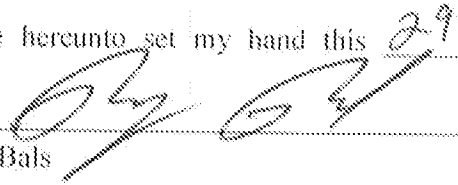
Assignors: Bryan Bals, Farzaneh Teymouri and Timothy J. Campbell

Application Number: 14/579,377

Title: METHODS OF HYDROLYZING PRETREATED DENSIFIED BIOMASS PARTICULATES AND SYSTEMS RELATED THERETO

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IN TESTIMONY WHEREOF, I have hereunto set my hand this 29 day of January, 2015.


Bryan Bals

ASSIGNMENT

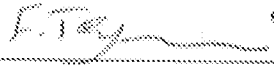
Assignors: Bryan Hols, Farzaneh Teymouri and Timothy J. Campbell

Application Number: 14/379,377

Title: METHODS OF HYDROLYZING PRETREATED DENSIFIED BIOMASS PARTICULATES AND SYSTEMS RELATED THERETO

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I IN TESTIMONY WHEREOF, I have hereunto set my hand this 27th day of January, 2015.



Farzaneh Teymouri

ASSIGNMENT

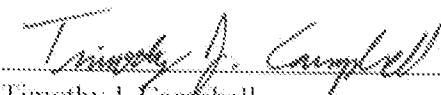
Assignors: Bryan Bals, Parvaneh Teymouri and Timothy J. Campbell

Application Number: 14/579,377

Title: METHODS OF HYDROLYZING PRETREATED DENSIFIED BIOMASS PARTICULATES AND SYSTEMS RELATED THERETO

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IN TESTIMONY WHEREOF, I have hereunto set my hand this 29th day of
January, 2015.



Timothy J. Campbell