

PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT3077557

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
VENKATESH BALAN	09/17/2014
BRUCE E. DALE	09/08/2014
SHUHAIDA HARUN	10/03/2014
RECEIVING PARTY DATA	
Name:	BOARD OF TRUSTEES OF MICHIGAN STATE UNIVERSITY
Street Address:	450 ADMINISTRATION BUILDING
City:	EAST LANSING
State/Country:	MICHIGAN
Postal Code:	48824-1046
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	14382370
CORRESPONDENCE DATA	
Fax Number:	
<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:	5152333865
Email:	docketing@cpaglobal.com
Correspondent Name:	BARBARA J. CLARK
Address Line 1:	1631 CRESTWOOD CIRCLE
Address Line 4:	AMES, IOWA 50010
ATTORNEY DOCKET NUMBER:	3000.069US1
NAME OF SUBMITTER:	CATHERINE FRITZ
SIGNATURE:	/Catherine Fritz/
DATE SIGNED:	10/23/2014
Total Attachments: 7	
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PATENT

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ASSIGNMENT

WHEREAS, we, Venkatesh Balan, residing at 257 North Hagadorn Road, East Lansing, Michigan 48823, United States of America, Bruce E. Dale residing at 2865 Hagadorn Road, Mason, Michigan, 48854, United States of America, and Shuhaida Harun, residing at 575, Jalan LH7 Lavender Heights, Senawang 70450, Malaysia, made certain new and useful inventions and improvements which are described in an application for U.S. Letters Patent filed on September 2, 2014, which application was assigned U.S. Patent Application Serial Number 14/382,370, and is entitled METHODS FOR INCREASING SUGAR YIELD WITH SIZE-ADJUSTED LIGNOCELLULOSIC BIOMASS PARTICLES;

WHEREAS, We are governed by Michigan State University (hereinafter "MSU") Patent Policy (www.hr.msu.edu/documents/facacadhandbooks/facultyhandbook/patents.htm), and therefore understand that, in exchange for GOOD AND VALUABLE CONSIDERATION provided by MSU, the receipt, sufficiency and adequacy of which are hereby acknowledged, the aforementioned new and useful inventions and improvements are considered "University Inventions." As such, the undersigned does hereby:

SELL, ASSIGN AND TRANSFER to Board of Trustees of Michigan State University (the "Assignee"), a corporation of the State of Michigan, having a place of business at 450 Administration Building, East Lansing, MI 48824-1046, 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

US Application No. 14/382,370

Attorney Docket Nos: 3000.069US1

Client Ref. Nos. TEC2012-0036-01US

Assignors: Venkatesh Balan, Bruce E. Dale and Shuhaida Harun

Page 2 of 5

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

US Application No. 14/382,370

Attorney Docket Nos. 3000 069US1

Client Ref. Nos. TEC2012-0036-01US

Assignors: Venkatesh Balan, Bruce E. Dale and Shuhaida Harun

Page 3 of 5

IN TESTIMONY WHEREOF, I have hereunto set my hand this 17th day of September, 2014.

Venkatesh Balan

Venkatesh Balan

CERTIFICATE OF ACKNOWLEDGMENT

STATE OF Michigan
COUNTY OF Eaton) SS.

On this 17th day of September, 2014, before me, the undersigned, a notary public for the State of Michigan, personally appeared VENKATESH BALAN personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to this Assignment, and acknowledged that he/she executed the same for the purposes therein contained.

WITNESS my hand and official seal.

Kimberly A. Poupard
Notary Public

(SEAL)

KIMBERLY A. POUPARD
NOTARY PUBLIC - STATE OF MICHIGAN
COUNTY OF EATON
My Commission Expires July 1, 2016
Acting in the County of Eaton

Witnessed by:

Seungdo Kim
Name (printed): SEUNGDO KIM

Date: Sept. 17, 2014

ASSIGNMENT

US Application No. 14/382,379

Attorney Docket No. 3000-0691261

Client Ref. No. TEC2012-0036-0108

Assignors: Venkatesh Balan, Bruce E. Dale and Shehadeh Harun

Page 4 of 5

IN TESTIMONY WHEREOF, I have hereunto set my hand this 9th day of September, 2014.

Bruce E. Dale

Bruce E. Dale

CERTIFICATE OF ACKNOWLEDGMENT

STATE OF Michigan)
) SS.
COUNTY OF Ingham

On this 8th day of September, 2014, before me, the undersigned, a notary public for the State of Michigan, personally appeared **BRUCE E. DALE** personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to this Assignment, and acknowledged that he/she executed the same for the purposes therein contained.

WITNESS my hand and official seal.

Catherine Johnson
Notary Public

(SEAL)

CATHERINE JOHNSON
Notary Public, State of Michigan
County of Ingham
My Commission Expires 12/31/15
Acting in the county of Ingham

Witnessed by:

Name (printed): _____

Date: _____

PATENT

REEL: 034016 FRAME: 0848

ASSIGNMENT

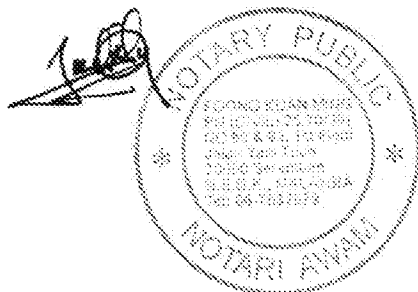
WHEREAS, we, Venkaresh Balan, residing at 257 North Hagadorn Road, East Lansing, Michigan 48823, United States of America, Bruce E. Dale residing at 2865 Hagadorn Road, Mason, Michigan, 48854, United States of America, and Shuhaida Harun, residing at 575, Jalan LH7 Lavender Heights, Senawang 70450, Malaysia, made certain new and useful inventions and improvements which are described in an application for U.S. Letters Patent filed on September 2, 2014, which application was assigned U.S. Patent Application Serial Number 14/382,370, and is entitled METHODS FOR INCREASING SUGAR YIELD WITH SIZE-ADJUSTED LIGNOCELLULOSIC BIOMASS PARTICLES;

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SELL, ASSIGN AND TRANSFER to Board of Trustees of Michigan State University (the "Assignee"), a corporation of the State of Michigan, having a place of business at 450 Administration Building, East Lansing, MI 48824-1046, 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

US Application No. 14/382,370

Attorney Docket Nos. 3000.069US1

Client Ref. Nos. TEC2012-0036-01US

Assignors: Venkatesh Balan, Bruce E. Dale and Shuhaida Harun

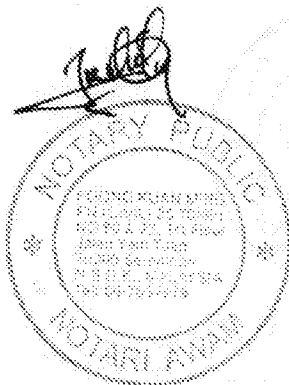
Page 2 of 5

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:



A handwritten signature in dark ink, appearing to be "Shuhaida Harun".

A vertical stamp on the right margin, partially obscured by a signature. The stamp appears to have the word "PILOT" and some other text. The signature is written over the stamp.

Assignors: Venkatesh Balan, Bruce E. Dale and Shuhaida Haran

IN TESTIMONY WHEREOF, I have hereunto set my hand this 3rd day of October, 2014.

[Signature]

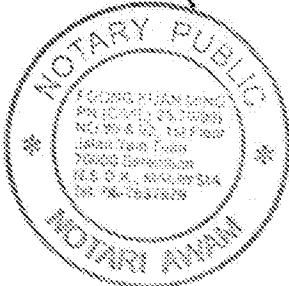
CERTIFICATE OF ACKNOWLEDGMENT

STATE OF NEGERI SEMBILAN) SS.
COUNTY OF SEREMBAN)

On this 3rd day of October, 2014, before me, the undersigned, a notary public for the State of Negeri Sembilan, Malaysia, personally appeared SHUHaida HARUN personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to this Assignment, and acknowledged that he/she executed the same for the purposes therein contained.

WITNESS my hand and official seal.

(SEAL)



Witnessed by:

sed by: 

FOONG KUAN MING
B.A. (HONS) LAW, COLLEGE OF LAW, UNIVERSITY OF LEEDS, U.K.
BARRISTER, MIDDLE TEMPLE, LONDON, U.K. / NOTARY PUBLIC
TEL: +6 016-27359918, +6 08-76278779 FAX: +6 08-76274439
Email: foongkuanming@gmail.com

Date: 2 OCT 2004

Name (printed): MOH D SOBRI TARRIFF