

RECORDATION FORM COVER SHEET
PATENTS ONLY

Atty Ref/Docket No.: 3000.008US1

Patent and Trademark Office

To the Director of the U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Bruce Dale, Bryan Ritchie, Derek Marshall

Additional name(s) of conveying party(ies) attached?

[] Yes [X] No

2. Name and address of receiving party(ies):

Name: Board of Trustees of Michigan State University

Street Address: 450 Administration Building

City: East Lansing State: MI Zip: 48824-1046

Country: United States of America

Additional name(s) & address(es) attached? [] Yes [X] No

3. Nature of conveyance:

[X] Assignment [] Merger

[] Security Agreement [] Change of Name

[] Other

Execution Date: August 22, 2011, August 26, 2011, August 29, 2011

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)

B. Patent No.(s)

Serial No. 13/202,011, filed August 17, 2011

Additional numbers attached? [] Yes [X] No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Barbara J. Clark

Address:

Schwegman, Lundberg & Woessner, P.A.
P.O. Box 2938
Minneapolis, MN 55402--0938

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41): \$ 40.00

[] Enclosed

[X] Authorized to be charged to deposit account
19-0743

8. Please charge any additional fees or credit any over payments to our Deposit Account No.: 19-0743

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Barbara J. Clark/Reg. No. 38,107
Name of Person Signing

Barbara J. Clark
Signature

September 8, 2011
Date

Total number of pages including cover sheet: 6

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents and Trademarks
Mail Stop Assignment Recordation Services
P.O. Box 1450
Alexandria, VA 22313-1450

CH \$40.00 190743 13202011

Attorney Docket No. 3000.008US1
Client Ref. No. TEC2009-0052-01US

ASSIGNMENT

WHEREAS, We, Bruce Dale, residing at 2865 Hagadorn Road, Mason, MI 48854, and Bryan Ritchie, residing at 2725 Loon Lane, Okemos, MI 48864, and Derek Marshall, residing at 1603 N. Harrison Avenue, East Lansing, MI 48823, made certain new and useful inventions and improvements which are described in an application for U.S. Letters Patent on **August 17, 2011**, which application was assigned U.S. patent application serial number **13/202,011**, and is entitled PRETREATED DENSIFIED BIOMASS PRODUCTS AND METHODS OF MAKING AND USING SAME:

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 patent application(s), and which may be further identified above; 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 non-provisional applications), and in all foreign countries on any of such inventions and/or improvements (including any applications for utility models); 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 claim priority to the identified patent application(s), including the right to file foreign applications under the provisions of any convention or treaty;

AUTHORIZE AND REQUEST that any attorney associated with U.S. PTO Customer No. 21186 may (directly or through his/her designee) delete, insert, or alter any information identifying this application, or any related application, 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;

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;

ASSIGNMENT

Docket No. 3000 008US1

Client Ref. No. TFC2009-0052-01US

Assignors: Bruce Dale et al.

Serial Number: 13/202,011

Title: PRETREATED DENSIFIED BIOMASS PRODUCTS
AND METHODS OF MAKING AND USING SAME

Page 2 of 5

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:

Docket No: 3000.008US1

ASSIGNMENT
Client Ref. No. TEC2009-0052-01US
Assignors: Bruce Dale et al
Serial Number: 13/202,011
Title: PRETREATED DENSIFIED BIOMASS PRODUCTS
AND METHODS OF MAKING AND USING SAME
Page 3 of 5

IN TESTIMONY WHEREOF, I have hereunto set my hand this 22nd day of August, 20 11.

Bruce Dale
Bruce Dale

STATE OF MI)
COUNTY OF Ingham)ss

On this 22nd day of August, 20 11 before me personally appeared Bruce Dale, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

LISA BRADLEY
NOTARY PUBLIC - STATE OF MICHIGAN
COUNTY OF SHIAWASSEE
My Commission Expires Sept. 22, 2011
Acting in the County of Shiawassee

Lisa Bradley
Notary Public LISA BRADLEY

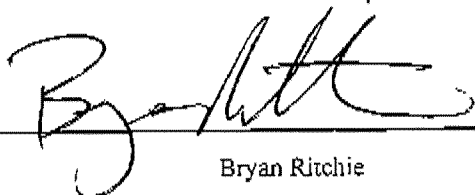
Expires Sept. 22, 2011 Shiawassee Co
Acting in Ingham Co

ASSIGNMENT
Client Ref No. TEC2009-0052-01US
Assignors: Bruce Dale et al.
Serial Number 13/202,011
Title: PRETREATED DENSIFIED BIOMASS PRODUCTS
AND METHODS OF MAKING AND USING SAME
Page 4 of 5

Docket No: 3000.008US1

IN TESTIMONY WHEREOF, I have hereunto set my hand this 26th day of

August, 2011.



Bryan Ritchie

STATE OF Michigan)

)ss

COUNTY OF Ingham)

On this 26th day of August, 2011 before me personally appeared Bryan Ritchie, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

[SEAL]



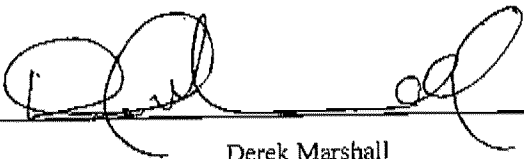
Notary Public

CATHERINE JOHNSON
Notary Public, State of Michigan
County of Ingham
My Commission Expires 08-19-2014
Acting in the county of Ingham

ASSIGNMENT
Client Ref. No. TEC2009-0052-01US
Assignors Bruce Dale et al
Serial Number: 13/202,011
Title: PRE-TREATED DENSIFIED BIOMASS PRODUCTS
AND METHODS OF MAKING AND USING SAME
Page 5 of 5

Docket No: 3000.008US1

IN TESTIMONY WHEREOF, I have hereunto set my hand this 29th day of
August, 2011.



Derek Marshall

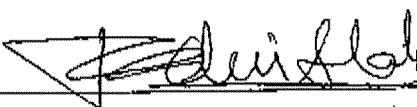
STATE OF NEW JERSEY)

)ss

COUNTY OF SOMERSET)

On this 29 day of Aug, 2011 before me personally appeared
Derek Marshall, to me known and known to me to be the person described in and who executed
the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for
the uses and purposes therein set forth.

[SEAL]



Notary Public
HASHMI SHAH
ID # 2380442
NOTARY PUBLIC OF NEW JERSEY
Commission Expires 12/2/2013