

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4360738

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
JEAN-PHILIPPE TESSONNIER	01/31/2017
JACK M. CARRAHER	02/01/2017
TONI PFENNIG	02/01/2017
BRENT SHANKS	02/02/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	IOWA STATE UNIVERSITY RESEARCH FOUNDATION, INC.
<b>Street Address:</b>	1805 COLLABORATION PLACE
<b>Internal Address:</b>	SUITE 2100
<b>City:</b>	AMES
<b>State/Country:</b>	IOWA
<b>Postal Code:</b>	50010
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15347985
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<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>	
<b>Email:</b>	request@slwip.com
<b>Correspondent Name:</b>	SCHWEGMAN LUNDBERG & WOESSNER, P.A.
<b>Address Line 1:</b>	P.O. BOX 2938
<b>Address Line 4:</b>	MINNEAPOLIS, MINNESOTA 55402
<b>ATTORNEY DOCKET NUMBER:</b>	900.290US1
<b>NAME OF SUBMITTER:</b>	CATINA JENSEN
<b>SIGNATURE:</b>	/CaTina Jensen/
<b>DATE SIGNED:</b>	04/10/2017
<b>Total Attachments: 7</b>	
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RECORDATION FORM COVER SHEET  
PATENTS ONLY

Atty Ref/Docket No.: 900.290US1

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):

Jean-Philippe Tessonnier, Jack M. Carraher, Toni Pfennig, Brent Shanks

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

Yes  No

3. Nature of conveyance:

Assignment  Merger  
 Security Agreement  Change of Name  
 Other

Execution Date: January 31, 2017, February 1, 2017,  
February 1, 2017, February 2, 2017

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

Name: Iowa State University Research Foundation, Inc.

Street Address: 1805 Collaboration Place  
Suite 2100

City: Ames State: IA Zip: 50010  
Country: United States of America

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

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)

Serial No. 15/347,985

B. Patent No.(s)

Additional numbers attached?  Yes  No

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

Name: Nicholas P. Lanzatella

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): \$ 0.00

Enclosed

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

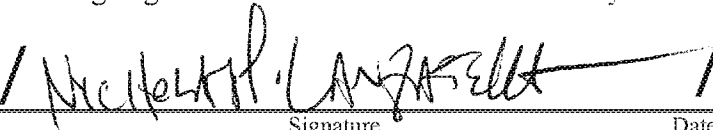
DO NOT USE THIS SPACE

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.

Nicholas P. Lanzatella/Reg. No. 63.803

Name of Person Signing



Signature

Date

April 10, 2017

Total number of pages including cover sheet: 7

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

PATENT  
REEL: 041940 FRAME: 0377

## ASSIGNMENT

WHEREAS, Jean-Philippe Tessonier, Jack M. Carraher, Toni Pfennig, Brent Shanks (hereinafter the "Undersigned") have made one or more inventions and other subject matter (hereinafter collectively referred to as the "Invention") which are described in a patent application filed on November 10, 2016, which application was assigned U.S. patent application serial number 15/347,985, and which is titled ISOMERIZATION OF MUCONIC ACID.

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency, and adequacy of which are hereby acknowledged by the Undersigned, the Undersigned do hereby irrevocably and unconditionally:

CONVEY, ASSIGN, AND TRANSFER to Iowa State University Research Foundation, Inc., (the "Assignee"), a corporation of Iowa, having a place of business at 1805 Collaboration Place, Suite 2100, Ames, IA 50010, the Undersigned's entire right, title, and interest for the United States and all foreign countries and jurisdictions in and to:

the Invention which is disclosed in the above-identified application or applications;

such application or applications, and all divisional, continuing (including continuation-in-part), substitute, renewal, reissue, and all other applications for a patent or patents which have been or shall be filed in the United States (including all provisional and non-provisional applications), and in all foreign countries and jurisdictions based in whole or in part on any of such Invention (including any application for a utility model or an innovation patent application);

all original and reissued patents which have been or shall be issued in the United States and all foreign countries and jurisdictions based in whole or in part on any of such Invention;

including the right to claim priority to the above-identified patent application or applications in relation to subject matter based in whole or in part on the above-identified patent application or applications and any of the foregoing including the right to file foreign applications under the provisions of any convention or treaty;

and including the right to all causes of action, remedies, and other enforcement rights related to the above-identified application or applications, including without limitation the right to sue for past, present, or future infringement, misappropriation, or violation of any and all rights related to the above-identified patent application or applications and any of the foregoing, including the right to obtain and collect damages for past, present, or future infringement;

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

AUTHORIZE AND REQUEST that any attorney associated with U.S. Patent and Trademark Office (USPTO) Customer No. 21186 may (directly or through his/her designee) delete, insert, or alter any information related to the above-identified patent application or applications or any of the foregoing, after execution of this Assignment;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or shall 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 shall (1) execute all provisional, non-provisional, divisional, continuing (including continuation-in-part), substitute, renewal, reissue, and all other patent applications for the Invention; (2) execute all rightful oaths, declarations, assignments, powers of attorney and other papers for the Invention; (3) communicate to the Assignee all facts known to the Undersigned relating to the Invention 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 the Invention; and (5) take such further actions as the Assignee shall reasonably consider necessary or desirable for vesting title to such Invention in the Assignee, or for securing, maintaining and enforcing proper patent protection for the Invention;

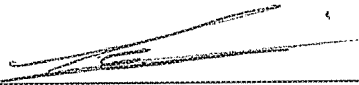
COVENANT, that should any provision of this agreement be held unenforceable by an authority of competent jurisdiction, such a ruling shall not affect the validity and enforceability of the remaining provisions. To the extent that any such provision is found to be unenforceable, the Undersigned, when requested and without compensation shall act in good faith to substitute for such provision a new provision with content and purpose as close as possible to the provision deemed unenforceable.

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.

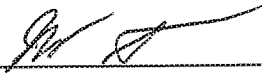
AGREED as of the date of my signature below:

Assignment  
Assignors: Jean-Philippe Tessonnier et al.  
Title: ISOMERIZATION OF MUCONIC ACID  
Page 3 of 6

Docket No: 900.290US1  
Client Ref. No. ISURF # 04439

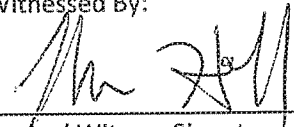
Assignor:   
Jean-Philippe Tessonnier

Date: 01/31/2017

Witnessed By:  
  
First Witness Signature

Printed Name: John Matthiesen

Date: 1-31-17

Witnessed By:  
  
Second Witness Signature

Printed Name: Thomas Hoff

Date: 1/31/17

Assignor: Jack M. Carraher  
Jack M. Carraher

Date: 02.01.17

Witnessed By:

Witnessed By:

Regina Reinig  
First Witness Signature

A. BISHA S  
Second Witness Signature

Printed Name: Regina Reinig

Printed Name: Abhramil BISHA S


Date: 2-01-17

Date: 2.01.17

Assignor:   
Toni Pfennig

Date: 02/01/17

Witnessed By:

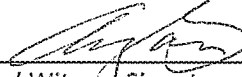


First Witness Signature

Printed Name: Jiajie Huo

Date: 2/1/2017

Witnessed By:



Second Witness Signature

Printed Name: YAN CHENG

Date: 2/1/2017



Assignor:   
Brent Shanks

Date: 2/2/17

Witnessed By:

  
First Witness Signature

Printed Name: Tonia McCarley

Date: 2/2/2017

Witnessed By:

  
Second Witness Signature

Printed Name: Jennifer Lillo

Date: 2/2/2017