505804924 12/05/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5851753

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
HERMAN P. BENECKE	11/12/2019
DANIEL B. GARBARK	04/02/2019

RECEIVING PARTY DATA

Name:	BATTELLE MEMORIAL INSTITUTE	
Street Address:	505 KING AVENUE	
City:	COLUMBUS	
State/Country:	OHIO	
Postal Code:	43201-2696	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15403751

CORRESPONDENCE DATA

Fax Number: (312)360-9315

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.

Phone: 3123600080

Email: rlyons@gbc.law

Correspondent Name: PATRICIA L. PRIOR

Address Line 1: 300 SOUTH WACKER DRIVE

Address Line 2: SUITE 2500

Address Line 4: CHICAGO, ILLINOIS 60606

ATTORNEY DOCKET NUMBER:	5188.127488
NAME OF SUBMITTER:	PATRICIA L. PRIOR
SIGNATURE:	/Patricia L. Prior/
DATE SIGNED:	12/05/2019

Total Attachments: 4

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PATENT REEL: 051188 FRAME: 0665

505804924

ASSIGNMENT

WHEREAS, the undersigned inventor(s) (hereinafter individually and collectively referred to as "ASSIGNOR") has invented new and useful improvements in:

METHODS OF MAKING LEVULINIC ACID AND ALKYL LEVULINATES FROM SACCHARIDES

for which Patent Applications, US and International, were filed as follows:

Type	Application Number	Date Filed	Yee
US Application	15/403,761	2017-01-11	METHODS OF MAKING
	(Patent Number 10,125,079)		ALXYL LEVULINATES
			FROM SACCHARIDES

AND WHEREAS, the "Assigned Property" shall mean (i) the above-identified United States and International applications for patent (the "Applications"), (ii) all inventions disclosed in the Applications, (iii) any and all applications for patent throughout the world directed to the subject matter of the Applications, (iv) the right of priority arising from the Applications or from such other applications, under the Paris Convention for the Protection of Industrial Property or under relevant laws, treaties, conventions or bilateral and multilateral agreements, in any jurisdiction, (v) any and all patents throughout the world resulting from the Applications or such other application(s) for patents, and (vi) any and all claims against third parties in connection with any of the rights assigned by this Agreement:

AND WHEREAS, Battelle Memorial Institute, a corporation of Ohio, having a place of business at 505 King Avenue, Columbus, Ohio 43201-2696, its successors and assigns (hereinafter individually and collectively referred to as "ASSIGNEE"), is desirous of acquiring ASSIGNOR's entire right, title, and interest in and to and resulting from said Assigned Property and in general all property rights included therein;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNOR does hereby irrevocably and unconditionally assign and transfer unto ASSIGNEE ASSIGNOR's entire right, title and interest in and to and resulting from the Assigned Property, and hereby authorizes and requests the Commissioner of Patents to issue said patent to ASSIGNEE for the sole use and benefit of ASSIGNEE; ASSIGNEE hereby accepts such transfer and assignment;

AND ASSIGNOR FURTHERMORE authorizes ASSIGNEE, or anyone it may properly designate, to insert on each page of this instrument (where indicated) the filing date and application number of said Applications when known;

AND ASSIGNOR AGREES, FURTHERMORE, upon request of ASSIGNEE, and without further remuneration, but at no expense to ASSIGNOR, that ASSIGNOR or ASSIGNOR'S heirs, executors, or administrators will provide all reasonable assistance to obtain, maintain, and assert the fullest measure of legal protection that ASSIGNEE desires to obtain or assert for the Assigned Property, including executing any and all papers desired by ASSIGNEE for the filing and granting of patent rights in the Assigned Property, the perfecting of title in ASSIGNEE, and in enforcing any rights in the Assigned Property.

This instrument is executed by, and shall be binding upon ASSIGNOR, and ASSIGNOR's heirs, executors and administrators, for the uses and purposes above set forth and referred to and shall inure to the benefit of ASSIGNEE or anyone it may properly designate.

If any provision of this assignment is held by any court to be unenforceable, such provision shall be interpreted to accomplish the objectives of the original provision to the fullest extent allowed by law and the remainder of this assignment shall remain in full force and effect.

PATENT REEL: 051188 FRAME: 0666

ASSIGNMENT

This assignment shall be construed, governed, interpreted and applied in accordance with the taws of the State of Ohio, United States of America.

EXECUTED on beneal of ASSIGNEE and effective as of the grature(s) beneal of the control of the c	he latest date of the ASSIGNOR
Susanne Wilson, Senior Counsel	
Intellectual Property & Technology Transactions Corporate Legal Services	
EXECUTED as of the date(s) set forth below on behalf of Augustum P., Burnale Herman P. Benecke	the ASSIGNOR: Date:
Daniel 8 Garbark	Oate:

ASSIGNMENT

WHEREAS, the undersigned inventor(s) (hereinafter individually and collectively referred to as "ASSIGNOR") has invented new and useful improvements in:

METHODS OF MAKING LEVULINIC ACID AND ALKYL LEVULINATES FROM SACCHARIDES

for which Patent Applications, US and International, were filed as follows:

Туре	Application Number	Date Filed	Title
US Application	15/403,751 (Patent Number 10,125,079)	2017-01-11	METHODS OF MAKING LEVULINIC ACID AND ALKYL LEVULINATES FROM SACCHARIDES

AND WHEREAS, the "Assigned Property" shall mean (i) the above-identified United States and International applications for patent (the "Applications"), (ii) all inventions disclosed in the Applications, (iii) any and all applications for patent throughout the world directed to the subject matter of the Applications, (iv) the right of priority arising from the Applications or from such other applications, under the Paris Convention for the Protection of Industrial Property or under relevant laws, treaties, conventions or bilateral and multilateral agreements, in any jurisdiction, (v) any and all patents throughout the world resulting from the Applications or such other application(s) for patents, and (vi) any and all claims against third parties in connection with any of the rights assigned by this Agreement;

AND WHEREAS, Battelle Memorial Institute, a corporation of Ohio, having a place of business at 505 King Avenue, Columbus, Ohio 43201-2696, its successors and assigns (hereinafter individually and collectively referred to as "ASSIGNEE"), is desirous of acquiring ASSIGNOR's entire right, title, and interest in and to and resulting from said Assigned Property and in general all property rights included therein:

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNOR does hereby irrevocably and unconditionally assign and transfer unto ASSIGNEE ASSIGNOR's entire right, title and interest in and to and resulting from the Assigned Property, and hereby authorizes and requests the Commissioner of Patents to issue said patent to ASSIGNEE for the sole use and benefit of ASSIGNEE; ASSIGNEE hereby accepts such transfer and assignment;

AND ASSIGNOR FURTHERMORE authorizes ASSIGNEE, or anyone it may properly designate, to insert on each page of this instrument (where indicated) the filing date and application number of said Applications when known;

AND ASSIGNOR AGREES, FURTHERMORE, upon request of ASSIGNEE, and without further remuneration, but at no expense to ASSIGNOR, that ASSIGNOR or ASSIGNOR'S heirs, executors, or administrators will provide all reasonable assistance to obtain, maintain, and assert the fullest measure of legal protection that ASSIGNEE desires to obtain or assert for the Assigned Property, including executing any and all papers desired by ASSIGNEE for the filing and granting of patent rights in the Assigned Property, the perfecting of title in ASSIGNEE, and in enforcing any rights in the Assigned Property.

This instrument is executed by, and shall be binding upon ASSIGNOR, and ASSIGNOR's heirs, executors and administrators, for the uses and purposes above set forth and referred to and shall inure to the benefit of ASSIGNEE or anyone it may properly designate.

If any provision of this assignment is held by any court to be unenforceable, such provision shall be interpreted to accomplish the objectives of the original provision to the fullest extent allowed by law and the remainder of this assignment shall remain in full force and effect.

PATENT REEL: 051188 FRAME: 0668 Documero, 17815US (\$188.127488)

ASSIGNMENT

This assignment shall be construed, governed, interpreted and applied in accordance with the laws of the State of Onio, United States of America

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Sattelle Memorial Institute	Wisson 1, 1Pand Rock Thomsock 1/45
XECUTED as of the date(s) set forth be	flow on behalf of the ASSIGNOR.
erman P. Benecke	Date
ferman P. Genecke	LIGHTON
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PATENT REEL: 051188 FRAME: 0669

RECORDED: 12/05/2019