503731918 03/10/2016

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date		
DENNIS GRAY	02/03/2012		
THOMAS D. SHARKEY	11/14/2011		

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

PROPERTY NUMBERS Total: 1

Property Type	Number		
Application Number:	15058746		

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ATTORNEY DOCKET NUMBER:	3000.004US3				
NAME OF SUBMITTER:	CHERYL BREYFOGLE				
SIGNATURE:	/Cheryl Breyfogle/				
DATE SIGNED:	03/10/2016				

Total Attachments: 5

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> **PATENT** REEL: 037950 FRAME: 0100

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RECORDATION FORM COVER SHEET PATENTS ONLY

Atty Ref/Docket No.: 3000.004US3 Patent and Trademark Office To the Director of the U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof. Name and address of receiving party(ies): 1. Name of conveying party(ies): Name: Board of Trustees of Michigan State University Dennis Gray, Thomas D Sharkey Street Address: 450 Administration Building Additional name(s) of conveying party(ies) attached? City: East Lansing State: MI Zip: 48824-1046 Country: United States of America []Yes [X]No Additional name(s) & address(es) attached? [[Yes [X]No 3. Nature of conveyance: [X] Assignment | Merger [] Security Agreement [] Change of Name [] Other Execution Date: February 3, 2012, November 14, 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. 15/058,746 Additional numbers attached? []Yes [X]No 6. Total number of applications and patents involved: 1 5. Name and address of party to whom correspondence 7. Total fee (37 CFR 3.41):\$ 0.00 concerning document should be mailed: Name: Monique M. Perdok [[Enclosed [Authorized to be charged to deposit account 19-Address: 0743 Schwegman Lundberg & Woessner, P.A. P.O. Box 2938 Please charge any additional fees or credit any over Minneapolis, MN 55402--0938 payments to our Deposit Account No.: 19-0743 DO NOT USE THIS SPACE 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. March 10, 2016 Monique M. Perdok/Reg. No Name of Person Signing Date Total number of pages including cover sheet: 5 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: 037950 FRAME: 0101

Attorney Docket No. 3000.004US1 Client Ref. No. TEC2009-0106-01US

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ASSIGNMENT

307 N Humpton St, Bay City, MI 48708

WHEREAS, We, <u>Dennis Gray</u>, residing at <u>1628 ladiana Avenue</u>, <u>Lunsing</u>, <u>MI 48906</u>, and <u>Thomas D Sharkey</u>, residing at <u>1210 Prescott Drive</u>, <u>East Lansing</u>, <u>MI 48823</u>, made certain new and useful inventions and improvements which are described in an application for U.S. Letters Patent on November 18, 2011, which application was assigned U.S. patent application serial number <u>13/321,458</u>, and is entitled <u>METHYL BUTENOL SYNTHASE</u>:

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. <u>21186</u> 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;

Docket No: 3000,004US1

ASSIGNMENT Client Ref. No. TEC2009-0106-01US Assignors: Dennis Gray et al. Serial Number: 13/321,458 Title: METHYL BUTENOL SYNTHASE Page 2 of 4

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:

PATENT REEL: 037950 FRAME: 0103

					Docket No: 3000.004US1				
ASSIGNMENT Cliem Ref. No. TEC2009-0106-01US Assignors: Dennis Gray et al. Berial Number: 13/321-458 Title: METHYL EUTENOL SYNTHASE		_r ouvoucean-Anyvy-pagessories	×	AKUUDOOOAAAVUKUUOAA		negagy and continued to	NANDONIONA MICAANA AN AND AN		
IN TESTIMONY WHEREOF, 1 February 20 12.	i have	hereunto	set m	y hand	this	3	day of		
		\$7	mang	Moran	2,	uunnännysuuttuuttaarin	M-MACHES STOCKES AND		
	amount.	AND THE PROPERTY OF THE PROPER		Dennis					
STATE OF Michigan))ss								
COUNTY OF Saging w									
On this 3-d day of 1 Dennis Gray, to me known and kno foregoing instrument, and he/she di uses and purposes therein set forth.	own to r uly acki	λγ-√ me to be the nowledged	20 <u>12</u> to me th	oefore m described at he/she	e perso i in an execu	mally ap d who ex ted the sa	peared scuted the ime for the		
[SEAL]		$\underline{\mathcal{J}}$	or / Note	<u>M, </u>	4	inst	ales ()		

ASSIGNMENT
Client Ref. No. TEC2009-0106-01US
Assignors: Denais Gray et al.
Title: METHYL BUTENOL SYNTHASE
Page 4 of 4

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

November, 2011

Thomas D. Sharkey

STATE OF COUNTY OF Locket No. 3000.004US1

COUNTY OF Locket No. 3000.004US1

Thomas D. Sharkey

STATE OF County of Locket No. 3000.004US1

On this day of November, 2011 before me personally appeared
Thomas D. Sharkey, 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]

Serial Number: Unknown

Thomas D. Sharkey

Sharkey

State OF Locket No. 3000.004US1

Serial Number: Unknown

Thomas D. Sharkey

State OF Locket No. 3000.004US1

State METHYL BUTENOL SHARE

Serial Number: Unknown

Thomas D. Sharkey

State OF Locket No. 3000.004US1

Thomas D. Sharkey

State OF Locket

PATENT REEL: 037950 FRAME: 0105

RECORDED: 03/10/2016