RECORDATION FORM COVER SHEET PATENTS ONLY

Atty Ref/Docket No.: 3000,004U\$1	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): Dennis Gray, Thomas D Sharkey Additional name(s) of conveying party(ies) 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	2. Name and address of receiving party(ies): Name: <u>Board of Trustees of Michigan State University</u> Street Address: <u>450 Administration Building</u> City: <u>East Lansing</u> State: <u>MI</u> Zip: <u>48824-1046</u> Country: <u>United States of America</u> Additional name(s) & address(es) attached? []Yes [X]No
 Application number(s) or patent number(s): If this document is being filed together with a new application No.(s) Serial No. 13/321,458, filed November 18, 2011 	ation, the execution date of the application is: B. Patent No.(s)
Additional numbers attached? []Yes [X]No	
5. Name and address of party to whom correspondence concerning document should be mailed: Name: Monique M. Perdok Shonka Address: Schwegman, Lundberg & Woessner, P.A. P.O. Box 2938 Minneapolis, MN 554020938	 6. Total number of applications and patents involved: 1 7. Total fee (37 CFR 3.41):\$\frac{40.00}{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 I	HEE THIC Chack
9. Statement and signature. To the best of my knowledge and belief, the foregoing inf of the original document. Monique M. Perdok Shonka/Reg. No. 42,989	formation is true and correct and any attached copy is a true copy March 9, 2012
Name of Person Signing	O Signature Date
	Total number of pages including cover sheet: 9
Mail documents to be recorded with required cover sheet	information to:

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

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PAGE 06

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

ASSIGNMENT

DG.

307 N Hampton St, Bay City, MI 98708

WHEREAS, We, <u>Dennis Gray</u>, residing at <u>1628 Indiana Avenue</u>, <u>Lansing</u>, <u>MI 48906</u>, and <u>Thomas D Sharkey</u>, residing at <u>1210 Prescott Drive</u>, <u>East Lensing</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</u> <u>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 afterney associated with U.S. PTO Customer No. 21186 may (directly or through his/her designee) delete, insert, or after 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
Client Ref. No. TEC2009-0106-01US
Assignors: Dennis Gray et al.
Serial Number: 13/321,458
Title: METHYL BULENOL SYNTHASE
Page 2 of 4

Docket No: 3000.004US1

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:

02/03/2012 01:04, 9899642717

PAGE 08

ASSIGNMENT Client Ref. No. TEC2009-0106-01US Assignors: Dennis Gray et al. Serial Number: 13/321.458 This: METHYL BUTENOU SYNTHASE Page 3 of 4	
IN TESTIMONY WHEREOF, I	have hereunto set my hand this 3 day of
•	Dennis Bray
	Dennis Gray
STATE OF Michigan	ے
)ss
COUNTY OF Sagina w	<u> </u>
Dennis Gray, to me known and known	brary, 2012 before me personally appeared to me to be the person described in and who executed the acknowledged to me that he/she executed the same for the
[SEAL]	Lou M. Lypensk Notary Public

ASSIGNMENT Client Ref. No. TEC2009-0106-01US Assignors: Dennis Gray et al. Serial Number: 13/321,458 Title: METHYL BUTENOL SYNTHASE Page 4 of 4	Docket No: 3000.004U\$1
IN TESTIMONY WHEREOF	, I have hereunto set my hand this day of
, 20	
_	Thomas D Sharkey
STATE OF	
)ss	
COUNTY OF	
Thomas D Sharkey, to me known and kno	, 20 before me personally appeared wn to me to be the person described in and who /she duly acknowledged to me that he/she executed the forth.
[SEAL]	
	Notary Public

SCHWEGMAN, LUNDBERG, WOES

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03/09/12 09:17 FAX 6123393061

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

ASSIGNMENT

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

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 <u>Board of Trustees of Michigan State University</u> (the "Assignee"), a corporation of the State of <u>Michigan</u>, having a place of business at <u>450 Administration Building</u>, <u>East Lansing</u>, <u>MI 48824-1046</u>, 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;

Additional Application Information

U.S. Provisional Application Serial No. 61/180,757, filed on May 22, 2009.

No U.S. Non-Provisional claim for priority is being made at this time.

PCT Application Serial No. PCT/US2010/035820, filed on May 21, 2010.

ASSIGNMENT
Client Ref. No. TEC2009-0106-01US
Assignors: Dennis Gray et al.
Title: METHYL BUTENOL SYNTHASE
Page 2 of 4

Docket No; 3000.004US1

Scrial Number: Unknown

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;

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:

ssignors: Demils Gray et ide: METHYL BUTENC 1986 3 of 4 N TESTIMONY	OL SYNTHASE	have	hereunto	set	my	hand	this		day	of
)ennis	 Стау		, <u>.</u>	
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COUNTY OF										
On this	ent, and he/she du	wn to m	, 2 se to be the owledged t	perso o me	_ before des	ore me scribed ne/she (perso in and execut	nally ap i who ex ed the sa	peared secuted ame for	the the

Notary Public

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ASSIGNMENT

Client Ref. No. TEC2009-0106-01US

Assignors: Dennis Gray et al.
Title: METHYL BUTENOL SYNTHASE

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Docket No: 3000,004US1

Serial Number: Unknown

IN TESTIMONY WHEREOF, I have bereunto set my hand this !

Thomas D. Sharkey

On this 14th 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.

RECORDED: 03/09/2012

SAMBRAP PUBLIC STATE OF MICHIGAN COUNTY OF INGHAM

My Commission Expires Mar. 12 2017

PATENT

REEL: 027845 FRAME: 0583