

<b>PATENT ASSIGNMENT COVER SHEET</b>
--------------------------------------

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT7174269

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
PATRICK B. SMITH	04/20/2015
DENNIS A. HUCUL	04/20/2015
EDMUND J. STARK	04/20/2015
DANIEL R. HENTON	04/20/2015
ADINA DUMITRASCU	04/20/2015
KATHERINE BRUNE	05/06/2015
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	MICHIGAN MOLECULAR INSTITUTE
<b>Street Address:</b>	1910 W. ST. ANDREWS ROAD
<b>City:</b>	MIDLAND
<b>State/Country:</b>	MICHIGAN
<b>Postal Code:</b>	48640
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14428339
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(415)268-7522
<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>Phone:</b>	4152687000
<b>Email:</b>	JRitter@mofo.com
<b>Correspondent Name:</b>	STEPHANIE CHOING
<b>Address Line 1:</b>	MORRISON & FOERSTER LLP
<b>Address Line 2:</b>	425 MARKET STREET
<b>Address Line 4:</b>	SAN FRANCISCO, CALIFORNIA 94105
<b>ATTORNEY DOCKET NUMBER:</b>	65723-20018.30
<b>NAME OF SUBMITTER:</b>	STEPHANIE CHOING
<b>SIGNATURE:</b>	/Stephanie Choing/
<b>DATE SIGNED:</b>	02/14/2022

**Total Attachments: 2**

source=657232001830\_Inventors\_to\_MMI#page1.tif

source=657232001830\_Inventors\_to\_MMI#page2.tif

## ASSIGNMENT

This assignment is by:

1. Patrick B. SMITH  
c/o Michigan Molecular Institute  
1910 W. St. Andrews Road  
Midland, Michigan 48640
2. Dennis A. HUCUL  
c/o Michigan Molecular Institute  
1910 W. St. Andrews Road  
Midland, Michigan 48640
3. Edmund J. STARK  
c/o Michigan Molecular Institute  
1910 W. St. Andrews Road  
Midland, Michigan 48640
4. Daniel R. HENTON  
c/o Michigan Molecular Institute  
1910 W. St. Andrews Road  
Midland, Michigan 48640
5. Adina DUMITRASCU  
c/o Michigan Molecular Institute  
1910 W. St. Andrews Road  
Midland, Michigan 48640
6. Katherine BRUNE  
c/o Michigan Molecular Institute  
1910 W. St. Andrews Road  
Midland, Michigan 48640

(referred to in this Assignment as "Assignors"), who reside at or have a mailing address as listed above.

This Assignment is to:

Assignee: MICHIGAN MOLECULAR INSTITUTE  
Address: 1910 W. St. Andrews Road, Midland, Michigan 48640  
A corporation duly organized under and pursuant to the laws of: Michigan

(referred to in this Assignment as "Assignee"), who desire to acquire the entire right, title and interest in said inventions and said application for letters patent of the United States, and in any United States or foreign, letters patent or patents, to be obtained therefor and thereon.

Assignors have invented certain new and useful inventions in:

METHODS OF PRODUCING PARA-XYLENE AND TEREPHTHALIC ACID

for which the following application has been filed in the United States of America.

Serial No.: 14/428,339  
(based on PCT/US2013/059660)

Filing Date: (Int'l) September 13, 2013

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged,

1

sf-3509511

1. Assignors hereby sell, assign, transfer and set over, to each Assignee, its successors, legal representatives and assigns, an undivided interest in, title and interest in and to the above-mentioned inventions, application for letters patent, and any and all letters patent or patents in the United States of America and all foreign countries which may be granted therefor and thereon, and in and to any and all provisionals, divisions, continuations, continuations-in-part and substitutions of said application, or reissues, re-examinations or extensions of said letters patent or patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by each Assignee as an owner of an undivided interest therein (including any right to institute actions and to recover for past, present and future infringement), for its own use and the use of its successors, legal representatives and assigns, to the full end of the term or terms for which letters patent or patents may be granted, as fully and entirely as the same would have been held and enjoyed by Assignors, had this sale and assignment not been made.

2. Assignors represent, warrant and covenant that, at the time of execution and delivery of this agreement, Assignors are the sole and lawful owners of the entire right, title and interest in and to said inventions and said application for letters patent, and that the same are unencumbered and that Assignors have good and full right and lawful authority to sell and convey the same in the manner set forth in this agreement.

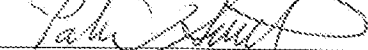
3. Assignors shall promptly sign and execute all papers and documents, take all lawful oaths, and do all acts necessary, required or useful for the procurement, maintenance, enforcement, defense or otherwise to secure title thereto to the Assignee, at the sole cost and expense of Assignee, its successors, legal representatives and assigns, in each case including, without limitation, arising from or relating to (a) said inventions, or said application for letters patent; (b) letters patent for said inventions in any country, including any reissue, re-examination or extension of or interference proceedings; or (c) any provisional, division, continuation, continuation-in-part, or substitutions of any application for letters patent or any reissues, re-examinations, extensions or interference proceedings involving any letters patent, to be obtained thereon. To be clear, for purposes of this paragraph, "desirable" shall include, without limitation, any act necessary or useful in connection with United States laws and/or international conventions.

4. Assignors hereby authorize and request the Commissioner of Patents in the United States to issue the above mentioned letters patents of the United States to Assignee as the assignee of said inventions and the letters patent to be issued thereon for the sole use of Assignee, its successors, legal representatives and assigns.


5. "I hereby grant Assignees' attorneys, all of Morrison & Foerster LLP, the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark office for recordation of this document, including the power to insert on this assignment the application number and filing date of said application when known."

In witness whereby, executed by the undersigned on the date(s) opposite the undersigned name(s).


Date: 4-20-15

Signature:   
Patrick B. SMITH

Date: 4-20-15

Signature:   
Dennis A. HUCUL

Date: 4-20-2015

Signature:   
Edmund J. STARK

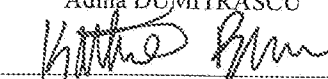
Date: 4-20-15

Signature:   
Daniel R. HENTON

Date: 4-20-15

Signature:   
Adina DUMITRASCU

Date: 5-06-15

Signature:   
Katherine BRUNE