

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4806367

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
ROBERT E. HEFNER JR	03/19/2015
BRIAN L. CRAMM	03/19/2015
IAN A. TOMLINSON	03/27/2015
LAUREN M. HUFFMAN	03/24/2015
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	DOW GLOBAL TECHNOLOGIES LLC
<b>Street Address:</b>	2040 DOW CENTER
<b>City:</b>	MIDLAND
<b>State/Country:</b>	MICHIGAN
<b>Postal Code:</b>	48674
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15543348
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(989)636-3237
<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>	989-636-2884
<b>Email:</b>	FGLMFRR@dow.com
<b>Correspondent Name:</b>	DANNY CHILDS
<b>Address Line 1:</b>	2040 DOW CENTER
<b>Address Line 4:</b>	MIDLAND, MICHIGAN 48674
<b>ATTORNEY DOCKET NUMBER:</b>	77184-US-PCT
<b>NAME OF SUBMITTER:</b>	DANNY CHILDS
<b>SIGNATURE:</b>	/Danny Childs/
<b>DATE SIGNED:</b>	02/02/2018
<b>Total Attachments: 4</b>	
source=77184 Assignment Inventors to DGTL#page1.tif	
source=77184 Assignment Inventors to DGTL#page2.tif	
source=77184 Assignment Inventors to DGTL#page3.tif	



This Assignee Acceptance 660 is in the ENGLISH language and has the same meaning in other languages with the same 660 number

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FORM 660

**ASSIGNEE ACCEPTANCE**

WE, the ASSIGNEE: **DOW GLOBAL TECHNOLOGIES LLC**  
**2040 Dow Center**  
**Midland, Michigan 48674**  
**United States of America**

hereby accept the ASSIGNMENT which is dated: March 19, 2015; March 24, 2015 and March 27, 2015

From, the ASSIGNOR: Robert E. Hefner, Jr., 2301 Brazosport Boulevard, Freeport, Texas 77541, United States of America, Citizen of United States of America; Brian L. Cramm, 2301 Brazosport Boulevard, Freeport, Texas 77541, United States of America, Citizen of United States of America; Jan A. Tomlinson, 1691 North Swede Road, Midland, Michigan 48674, United States of America, Citizen of United States of America; and Lauren M. Huffman, Washington Street, 1710 Building, Midland, Michigan 48674, United States of America, Citizen of United States of America

of the invention entitled:

**POLYMERS OF INTRINSIC MICROPOROSITY**

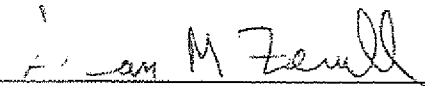
without any restrictions and with all rights and obligations deriving therefrom and declare that this confirmation of acceptance shall be deemed a part of the said ASSIGNMENT.

Signed at Midland, Michigan 48674, USA

this 16 day of April, 20 15

CORP.  
SEAL

**DOW GLOBAL TECHNOLOGIES LLC**

By:   
**SUSAN M. ZERULL**  
 Authorized Representative

**NOTARIAL CERTIFICATE**

UNITED STATES OF AMERICA )  
 STATE OF MICHIGAN ) SS  
 County/Parish of Midland )

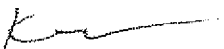
On this 16 day of April, 20 15, personally appeared before me, **SUSAN M. ZERULL, Authorized Representative**, known or identified to me to be the individual described in and who executed the foregoing document and acknowledged the same as a free act and deed for uses and purposes therein expressed by authority of the said entity organized and existing under the laws of the **State of Delaware, United States of America**.

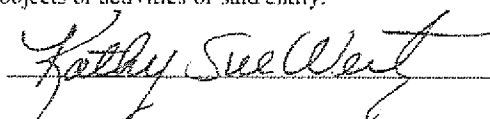
I further certify that said authority, dated **June 1, 2014**, is based on

**A delegation of signature authority of said Limited Liability Company**

which I have seen, appointing the said individual Authorized Representative with full power to sign the foregoing document on behalf of the said entity and that the purposes for which said document is granted are within the scope of the objects or activities of said entity.

SEAL



  
 Kathy Sue Wertz  
 NOTARY PUBLIC, MIDLAND COUNTY, MICHIGAN  
 MY COMMISSION EXPIRES APRIL 07, 2018

## INDIVIDUAL ASSIGNMENT AND INVENTOR'S DECLARATION

(with Priority Rights)

I/we verify/believe I am/we are the original, first and sole/joint inventor(s) of the subject matter which is embraced by and for which a patent is sought on the invention entitled: **POLYMERS OF INTRINSIC MICROPOROSITY**

which invention was made and invented by me/us out of and in the course of my/our employment with my/our respective employers as stated below my/our name(s). I/we acknowledge that I/we hold the invention and all patent and other rights and powers obtainable or exercisable in respect thereof in trust for our respective employers. As trustee(s), and for good and valuable consideration and/or the remuneration received for my/our work, I/we sell, assign and transfer unto

**Dow Global Technologies LLC**  
2040 Dow Center  
Midland, Michigan 48674  
United States of America

an entity organized and existing under the laws of the state of Delaware (hereinafter referred to as the "Assignee"); my/our entire right, title and interest throughout the world, in and to the invention and all rights and powers to make applications, including provisional applications when permitted by law, for Letters Patent in its own name, or in the name of its designee (or nominee(s)); and all rights and powers to file any corresponding or equivalent applications in any and all countries, including all rights to claim priority under all United States domestic laws, International Conventions(s) and Treaties in the name of Assignee, and do hereby authorize Assignee or its designee to insert here the Priority Number, Filing Date, and Filing Country

Priority Number	Filing Date	Filing Country
62/134,024	March 17, 2015	United States of America

of the application, on which the claim for priority will be based; and in and to any Letters Patent that may be issued for the invention in any and all countries. I/we do hereby agree to assist Assignee in the prosecution of the application(s) and in any interference, conflict, opposition or litigation which may arise involving the invention or the patent or patents thereon, and to execute for any and all countries any document relating to applications derived from, corresponding to or equivalent to the above identified application as Assignee may request.

I/we authorize Assignee or its designee to translate this Assignment into all languages necessary; and we request that any such Letters Patent be issued to Assignee; and consent to the recording of this Assignment, or a Notarial True Copy thereof, being under covenant not only that I/we have full power to make the same, but also that such assigned rights are not encumbered by any grant, license, or other right heretofore given.

Subscribed and Declared by me/us:

At: Freeport, Texas 77541 USA  
 this 19<sup>th</sup> day of March, 20 15  
 Effective as of March 17, 2015  
 Signature: Robert E. Heffner, Jr.  
 Full Name: Robert E. Heffner, Jr.  
 Mailing Address: 2301 Brazosport Boulevard  
Freeport, Texas 77541  
United States of America

At: Freeport, Texas 77541 USA  
 this 19th day of March, 20 15  
 Effective as of March 17, 2015  
 Signature: Brian L Cramm  
 Full Name: Brian L. Cramm  
 Mailing Address: 2301 Brazosport Boulevard  
Freeport, Texas 77541  
United States of America

At: \_\_\_\_\_ Midland, Michigan 48674 USA  
this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_  
Effective as of March 17, 2015

Signature: \_\_\_\_\_  
Full Name: Ian A. Tomlinson  
Mailing Address: 1691 North Swede Road  
Midland, Michigan 48674  
United States of America

At: \_\_\_\_\_ Midland, Michigan 48674 USA  
this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_  
Effective as of March 17, 2015

Signature: \_\_\_\_\_  
Full Name: Lauren M. Huffman  
Mailing Address: Washington Street, 1710 Building  
Midland, Michigan 48674  
United States of America

At: \_\_\_\_\_  
this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_  
Signature: \_\_\_\_\_  
Full Name: \_\_\_\_\_  
Mailing Address: \_\_\_\_\_

At: \_\_\_\_\_  
this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_

Signature: \_\_\_\_\_  
Full Name: \_\_\_\_\_  
Mailing Address: \_\_\_\_\_

This Assignment 110 is in the ENGLISH language and has the same meaning in other languages with the same 110 number and R-Date

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FORM 110 (R. 5/97)

## INDIVIDUAL ASSIGNMENT AND INVENTOR'S DECLARATION

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I/we verify believe I am/we are the original, first and sole/joint inventor(s) of the subject matter which is embraced by and for which a patent is sought on the invention entitled: **POLYMERS OF INTRINSIC MICROPOROSITY**

which invention was made and invented by me/us out of and in the course of my/our employment with my/our respective employers as stated below my/our name(s). I/we acknowledge that I/we hold the invention and all patent and other rights and powers obtainable or exercisable in respect thereof in trust for our respective employers. As trustee(s), and for good and valuable consideration and/or the remuneration received for my/our work, I/we sell, assign and transfer unto:

**Dow Global Technologies LLC**  
2040 Dow Center  
Midland, Michigan 48674  
United States of America

an entity organized and existing under the laws of the state of Delaware (hereinafter referred to as the "Assignee"); my/our entire right, title and interest throughout the world, in and to the invention and all rights and powers to make applications, including provisional applications when permitted by law, for Letters Patent in its own name, or in the name of its designee (or nominee(s)); and all rights and powers to file any corresponding or equivalent applications in any and all countries, including all rights to claim priority under all United States domestic laws, International Convention(s) and Treaties in the name of Assignee, and do hereby authorize Assignee or its designee to insert here the Priority Number, Filing Date, and Filing Country

Priority Number	Filing Date	Filing Country
62/134,024	March 17, 2015	United States of America

of the application, on which the claim for priority will be based; and in and to any Letters Patent that may be issued for the invention in any and all countries. I/we do hereby agree to assist Assignee in the prosecution of the application(s) and in any interference, conflict, opposition or litigation which may arise involving the invention or the patent or patents thereon, and to execute for any and all countries any document relating to applications derived from, corresponding to or equivalent to the above identified application as Assignee may request.

I/we authorize Assignee or its designee to translate this Assignment into all languages necessary; and we request that any such Letters Patent be issued to Assignee; and consent to the recordal of this Assignment, or a Notarial True Copy thereof, being under covenant not only that I/we have full power to make the same, but also that such assigned rights are not encumbered by any grant, license, or other right heretofore given.

Subscribed and Declared by me/us:

At: Freeport, Texas 77541 USA  
this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_  
Effective as of March 17, 2015  
Signature: \_\_\_\_\_  
Full Name: Robert E. Hefner, Jr.  
Mailing Address: 2301 Brazosport Boulevard  
Freeport, Texas 77541  
United States of America

At: Freeport, Texas 77541 USA  
this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_  
Effective as of March 17, 2015  
Signature: \_\_\_\_\_  
Full Name: Brian L. Cramm  
Mailing Address: 2301 Brazosport Boulevard  
Freeport, Texas 77541  
United States of America

At: Midland, Michigan 48674 USA  
this 27 day of March, 20 15  
Effective as of March 17, 2015  
Signature: Ian A. Tomlinson  
Full Name: Ian A. Tomlinson  
Mailing Address: 1691 North Swede Road  
Midland, Michigan 48674  
United States of America

At: Midland, Michigan 48674 USA  
this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_  
Effective as of March 17, 2015  
Signature: \_\_\_\_\_  
Full Name: Lauren M. Huffman  
Mailing Address: Washington Street, 1710 Building  
Midland, Michigan 48674  
United States of America

At: \_\_\_\_\_  
this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_  
Signature: \_\_\_\_\_  
Full Name: \_\_\_\_\_  
Mailing Address: \_\_\_\_\_

At: \_\_\_\_\_  
this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_  
Signature: \_\_\_\_\_  
Full Name: \_\_\_\_\_  
Mailing Address: \_\_\_\_\_

PATENT

REEL: 044810 FRAME: 0789

This Assignment (A) is in the ENGLISH language and has the same meaning in other languages with the same (1) names and (2) date

This Assignment (A) is in the ENGLISH language and has the same meaning in other languages with the same (1) names and (2) date

FORM 110 (R 5/07)

## INDIVIDUAL ASSIGNMENT AND INVENTOR'S DECLARATION

(with Priority Rights)

I/we verily believe I am/we are the original, first and sole/joint inventor(s) of the subject matter which is embraced by and for which a patent is sought on the invention entitled: **POLYMERS OF INTRINSIC MICROPOROSITY**

which invention was made and invented by me/us out of and in the course of my/our employment with my/our respective employers as stated below my/our name(s). I/we acknowledge that I/we hold the invention and all patent and other rights and powers obtainable or exercisable in respect thereof in trust for our respective employers. As trustee(s), and for good and valuable consideration and/or the remuneration received for my/our work, I/we sell, assign and transfer unto:

**Dow Global Technologies LLC**  
2040 Dow Center  
Midland, Michigan 48674  
United States of America

an entity organized and existing under the laws of the state of **Delaware** (hereinafter referred to as the "Assignee"); my/our entire right, title and interest throughout the world, in and to the invention and all rights and powers to make applications, including provisional applications when permitted by law, for Letters Patent in its own name, or in the name of its designee (or nominee(s)), and all rights and powers to file any corresponding or equivalent applications in any and all countries, including all rights to claim priority under all United States domestic laws, International Convention(s) and Treaties in the name of Assignee, and do hereby authorize Assignee or its designee to insert here the Priority Number, Filing Date, and Filing Country

Priority Number	Filing Date	Filing Country
62/154,024	March 17, 2015	United States of America

of the application, on which the claim for priority will be based; and in and to any Letters Patent that may be issued for the invention in any and all countries. I/we do hereby agree to assist Assignee in the prosecution of the application(s) and in any interference, conflict, opposition or litigation which may arise involving the invention or the patent or patents thereon, and to execute for any and all countries any document relating to applications derived from, corresponding to or equivalent to the above identified application as Assignee may request.

I/we authorize Assignee or its designee to translate this Assignment into all languages necessary; and we request that any such Letters Patent be issued to Assignee; and consent to the recording of this Assignment, or a Notarial True Copy thereof, being under covenant not only that I/we have full power to make the same, but also that such assigned rights are not encumbered by any grant, license, or other right heretofore given.

Subscribed and Declared by me/us:

At: Freeport, Texas 77541 USA  
this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_  
Effective as of March 17, 2015  
Signature: \_\_\_\_\_  
Full Name: Robert E. Hefner, Jr.  
Mailing Address: 2301 Brazosport Boulevard  
Freeport, Texas 77541  
United States of America

At: Freeport, Texas 77541 USA  
this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_  
Effective as of March 17, 2015  
Signature: \_\_\_\_\_  
Full Name: Brian L. Cramm  
Mailing Address: 2301 Brazosport Boulevard  
Freeport, Texas 77541  
United States of America

At: Midland, Michigan 48674 USA  
this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_  
Effective as of March 17, 2015  
Signature: \_\_\_\_\_  
Full Name: Ian A. Tomlinson  
Mailing Address: 1691 North Swede Road  
Midland, Michigan 48674  
United States of America

At: Midland, Michigan 48674 USA  
this 24 day of March, 2015  
Effective as of March 17, 2015  
Signature: Lauren M. Huffman  
Full Name: Lauren M. Huffman  
Mailing Address: Washington Street, 1710 Building  
Midland, Michigan 48674  
United States of America

At: \_\_\_\_\_  
this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_  
Signature: \_\_\_\_\_  
Full Name: \_\_\_\_\_  
Mailing Address: \_\_\_\_\_

At: \_\_\_\_\_  
this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_  
Signature: \_\_\_\_\_  
Full Name: \_\_\_\_\_  
Mailing Address: \_\_\_\_\_

PATENT

RECORDED: 02/02/2018

REEL: 044810 FRAME: 0790