

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT4372337

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>SEQUENCE:</b>	4
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
TINA L ARROWOOD	08/20/2012
ROBERT C CIESLINSKI	08/29/2012
DAVID D HAWN	08/29/2012
STEVEN D JONS	08/22/2012
MARTIN H PEERY	08/20/2012
STEVEN ROSENBERG	08/21/2012
IAN A TOMLINSON	09/05/2012
<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>	14405711
<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>	9896368537
<b>Email:</b>	FGLMFRR@DOW.COM
<b>Correspondent Name:</b>	KRISTIE ELLISON
<b>Address Line 1:</b>	2040 DOW CENTER
<b>Address Line 4:</b>	MIDLAND, MICHIGAN 48674
<b>ATTORNEY DOCKET NUMBER:</b>	72980-US-PCT
<b>NAME OF SUBMITTER:</b>	KRISTIE ELLISON
<b>SIGNATURE:</b>	/Kristie Ellison/

<b>DATE SIGNED:</b>	04/18/2017
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**Total Attachments: 3**

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Patent Application No. 12/517,466 and the corresponding foreign applications in the same or corresponding fields  
 The inventor(s) is/are the inventor(s) of the invention and the inventor(s) of the invention and the inventor(s) of the invention  
 FORM 110 (R 5/10)

## 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 **COMPOSITE POLYAMIDE MEMBRANE**

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 trustees), 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

a limited liability company 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 nominees), 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 and Treaties in the name of Assignee, and do hereby authorize Assignee and its designee to insert here the Priority Number, Filing Date, and Filing Country

Priority Number	Filing Date	Filing Country
61-673 466	Jul 19, 2012	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 this <u>28</u> day of <u>August</u> , 20 <u>12</u> Effective as of July 19, 2012	Midland, Michigan 48674 USA
Signature: <u>[Signature]</u>	
Full Name: Tina L. Arrowood	
Residence: 26810 Zane Avenue Elko New Market, Minnesota 55020	
Country: United States of America	
Citizenship: United States of America	
P.O. Address: Same as Residence	
Employed By: The Dow Chemical Company	
Of Country: United States of America	

At this <u>29</u> day of <u>August</u> , 20 <u>12</u> Effective as of July 19, 2012	Midland, Michigan 48674 USA
Signature: <u>[Signature]</u>	
Full Name: Robert C. Cieslinski	
Residence: 2500 Candlestick Lane Midland, Michigan 48642	
Country: United States of America	
Citizenship: United States of America	
P.O. Address: Same as Residence	
Employed By: The Dow Chemical Company	
Of Country: United States of America	

At this <u>28</u> day of <u>August</u> , 20 <u>12</u> Effective as of July 19, 2012	Midland, Michigan 48674 USA
Signature: <u>[Signature]</u>	
Full Name: David D. Hawen	
Residence: 3811 Gettysburg Road Midland, Michigan 48642	
Country: United States of America	
Citizenship: United States of America	
P.O. Address: Same as Residence	
Employed By: The Dow Chemical Company	
Of Country: United States of America	

At this <u>22</u> day of <u>Aug</u> , 20 <u>12</u> Effective as of July 19, 2012	Edina, Minnesota 55439 USA
Signature: <u>[Signature]</u>	
Full Name: Steven E. Jons	
Residence: 6787 Boyd Avenue Eden Prairie, Minnesota 55346	
Country: United States of America	
Citizenship: United States of America	
P.O. Address: Same as Residence	
Employed By: The Dow Chemical Company	
Of Country: United States of America	

(X) Additional names and signatures are attached

INDIVIDUAL ASSIGNMENT AND INVENTORS DECLARATION

At Edina, Minnesota 55439 USA  
 this 20 day of August, 2012  
 Effective as of July 19, 2012  
 Signature: *[Signature]*  
 Full Name: Martin H. Peery  
 Residence: 11151 Rhode Island Avenue South  
 Bloomington, Minnesota 55438  
 Country: United States of America  
 Citizenship: United States of America  
 P.O. Address: Same as Residence  
 Employed By: The Dow Chemical Company  
 Of Country: United States of America

At Edina, Minnesota 55439 USA  
 this 21 day of August, 2012  
 Effective as of July 19, 2012  
 Signature: *[Signature]*  
 Full Name: Steven Rosenberg  
 Residence: 5728 Brenridge Drive  
 Shorewood, Minnesota 55331  
 Country: United States of America  
 Citizenship: United States of America  
 P.O. Address: Same as Residence  
 Employed By: The Dow Chemical Company  
 Of Country: United States of America

At Midland, Michigan 48674 USA  
 this 5 day of SEPTEMBER, 2012  
 Effective as of July 19, 2012  
 Signature: *[Signature]*  
 Full Name: Ian A. Tomlinson  
 Residence: 4415 Andre Street  
 Midland, Michigan 48642  
 Country: United States of America  
 Citizenship: United States of America  
 P.O. Address: Same as Residence  
 Employed By: The Dow Chemical Company  
 Of Country: United States of America

At \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_  
 Signature \_\_\_\_\_  
 Full Name \_\_\_\_\_  
 Residence \_\_\_\_\_  
 Country \_\_\_\_\_  
 Citizenship \_\_\_\_\_  
 P.O. Address: \_\_\_\_\_  
 Employed By \_\_\_\_\_  
 Of Country: \_\_\_\_\_

At \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_  
 Signature \_\_\_\_\_  
 Full Name \_\_\_\_\_  
 Residence \_\_\_\_\_  
 Country \_\_\_\_\_  
 Citizenship \_\_\_\_\_  
 P.O. Address: \_\_\_\_\_  
 Employed By \_\_\_\_\_  
 Of Country: \_\_\_\_\_

At \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_  
 Signature \_\_\_\_\_  
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 Country \_\_\_\_\_  
 Citizenship \_\_\_\_\_  
 P.O. Address: \_\_\_\_\_  
 Employed By \_\_\_\_\_  
 Of Country: \_\_\_\_\_

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

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

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 attached hereto which is dated: August 20, 2012; August 21, 2012; August 22, 2012; August 29, 2012 and September 5, 2012, respectively

From, the ASSIGNOR: Tina L. Arrowood, 26810 Zane Avenue, Elko New Market, Minnesota 55020, United States of America, Citizen of United States of America; Robert C. Cieslinski, 2300 Candlestick Lane, Midland, Michigan 48642, United States of America, Citizen of United States of America; David D. Hawn, 3811 Gettysburg Road, Midland, Michigan 48642, United States of America, Citizen of United States of America; Steven D. Jons, 6783 Boyd Avenue, Eden Prairie, Minnesota 55346, United States of America, Citizen of United States of America; Martin H. Peery, 11151 Rhode Island Avenue South, Bloomington, Minnesota 55438, United States of America, Citizen of United States of America; Steven Rosenberg, 5725 Brentridge Drive, Shorewood, Minnesota 55331, United States of America, Citizen of United States of America; and Ian A. Tomlinson, 4415 Andre Street, Midland, Michigan 48642, United States of America, Citizen of United States of America

of the invention entitled:  
COMPOSITE POLYAMIDE MEMBRANE

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 10 day of September, 20 12

CORP.  
SEAL

DOW GLOBAL TECHNOLOGIES LLC

By: Susan M Zerull  
SUSAN M. ZERULL  
Authorized Representative

## NOTARIAL CERTIFICATE

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

On this 10 day of September, 20 12, 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 limited liability company under the laws of the State of Delaware, United States of America.

I further certify that said authority, dated **June 1, 2012**, 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 limited liability company and that the purposes for which said document is granted are within the scope of the objects or activities of said limited liability company.

SEAL

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

Attach this Assignee Acceptance 660 to an ASSIGNMENT in the English language.

PATENT