

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4295623

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
TINA L ARROWOOD	03/12/2013
ANAND S BADAMI	03/29/2013
ROBERT C CIESLINSKI	03/11/2013
DAVID D HAWN	03/11/2013
STEVEN D JONS	03/12/2013
STEVEN ROSENBERG	03/13/2013
HUANG WU	03/12/2013
RECEIVING PARTY DATA	
Name:	DOW GLOBAL TECHNOLOGIES LLC
Street Address:	2040 DOW CENTER
City:	MIDLAND
State/Country:	MICHIGAN
Postal Code:	48674
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	14407366
CORRESPONDENCE DATA	
Fax Number:	(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>	
Phone:	9896368537
Email:	FGLMFRR@DOW.COM
Correspondent Name:	KRISTIE ELLISON
Address Line 1:	2040 DOW CENTER
Address Line 4:	MIDLAND, MICHIGAN 48674
ATTORNEY DOCKET NUMBER:	73374-US-PCT
NAME OF SUBMITTER:	KRISTIE ELLISON
SIGNATURE:	/Kristie Ellison/
DATE SIGNED:	02/28/2017

Total Attachments: 6

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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 4-97)

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 WITH IMPROVED STRUCTURE**

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

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 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
61/775,814	March 11, 2013	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: Edina, Minnesota 55439 USA
this 12 day of March, 20 13
Effective as of March 11, 2013
Signature: [Signature]
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: Midland, Michigan 48674 USA
this _____ day of _____, 20 ____
Effective as of March 11, 2013
Signature: _____
Full Name: Anand S. Badami
Residence: 5202 Dale 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: Midland, Michigan 48674 USA
this _____ day of _____, 20 ____
Effective as of March 11, 2013
Signature: _____
Full Name: Robert C. Cieslinski
Residence: 2300 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: Midland, Michigan 48674 USA
this _____ day of _____, 20 ____
Effective as of March 11, 2013
Signature: _____
Full Name: David D. Hawn
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

(X) Additional names and signatures are attached

[illegible]

FORM 110 (R 5/97)

(with Priority Rights)

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

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 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
61/775,814	March 11, 2013	United States of America

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Subscribed and Declared by me/us:

At: Edina, Minnesota 55439 USA
 this day of , 20
 Effective as of March 11, 2013

Signature: _____
 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: Midland, Michigan 48674 USA
this 29 day of March, 20 13
Effective as of March 11, 2013

Signature: *Anand S. Badarni*
Full Name: Anand S. Badarni
Residence: 5202 Dale Street Midland, MI
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: _____ Midland, Michigan 48674 USA
this _____ day of _____, 20 _____
Effective as of March 11, 2013

Signature: _____

Full Name: Robert C. Cieslinski
Residence: 2300 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: Midland, Michigan 48674 USA
 this day of , 20
 Effective as of March 11, 2013

Signature: _____
 Full Name: David D. Hawn
 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

(X) Additional names and signatures are attached.

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FORM 110 (R 5/97)

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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(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

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 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
61/775,814	March 11, 2013	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: Edina, Minnesota 55439 USA
this 11 day of March, 20 13
Effective as of March 11, 2013
Signature: [Signature]
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: Midland, Michigan 48674 USA
this 11 day of March, 20 13
Effective as of March 11, 2013
Signature: [Signature]
Full Name: Anand S. Badami
Residence: 5202 Dale 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: Midland, Michigan 48674 USA
this 11 day of March, 20 13
Effective as of March 11, 2013
Signature: [Signature]
Full Name: Robert C. Cieslinski
Residence: 2300 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: Midland, Michigan 48674 USA
this 11 day of March, 20 13
Effective as of March 11, 2013
Signature: [Signature]
Full Name: David D. Hawn
Residence: 4470 Flajole 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

(X) Additional names and signatures are attached.

At: _____
this _____ day of _____, 20____
Signature: _____
Full Name: _____
Residence: _____
Country: _____
Citizenship: _____
P.O. Address: _____
Employed By: _____
Of Country: _____

At: Edina, Minnesota 55439 USA
 this _____ day of _____, 20____
 Effective as of March 11, 2013

Signature: _____
 Full Name: Steven D. Jons
 Residence: 6783 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

At: Edina, Minnesota 55439 USA
 this _____ day of _____, 20____
 Effective as of March 11, 2013

Signature: _____
 Full Name: Steven Rosenberg
 Residence: 5725 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 12 day of March, 2013
 Effective as of March 11, 2013

Signature: Huang Wu
 Full Name: Huang Wu
 Residence: 4608 Lund Drive
 Midland, Michigan 488642
 Country: United States of America
 Citizenship: People's Republic of China
 P.O. Address: Same as Residence
 Employed By: The Dow Chemical Company
 Of Country: United States of America

At: _____
 this _____ day of _____, 20____

Signature: _____
 Full Name: _____
 Residence: _____
 Country: _____
 Citizenship: _____
 P.O. Address: _____
 Employed By: _____
 Of Country: _____

At: _____
 this _____ day of _____, 20____

Signature: _____
 Full Name: _____
 Residence: _____
 Country: _____
 Citizenship: _____
 P.O. Address: _____
 Employed By: _____
 Of Country: _____

At: _____
 this _____ day of _____, 20____

Signature: _____
 Full Name: _____
 Residence: _____
 Country: _____
 Citizenship: _____
 P.O. Address: _____
 Employed By: _____
 Of Country: _____

At: _____
 this _____ day of _____, 20____

Signature: _____
 Full Name: _____
 Residence: _____
 Country: _____
 Citizenship: _____
 P.O. Address: _____
 Employed By: _____
 Of Country: _____

At: _____
 this _____ day of _____, 20____

Signature: _____
 Full Name: _____
 Residence: _____
 Country: _____
 Citizenship: _____
 P.O. Address: _____
 Employed By: _____
 Of Country: _____

At: _____
 this _____ day of _____, 20____

Signature: _____
 Full Name: _____
 Residence: _____
 Country: _____
 Citizenship: _____
 P.O. Address: _____
 Employed By: _____
 Of Country: _____

At: _____
 this _____ day of _____, 20____

Signature: _____
 Full Name: _____
 Residence: _____
 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

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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 attached hereto which is dated: March 11, 2013; March 12, 2013;
 March 13, 2013 and March 29, 2013

From, the ASSIGNOR: Tina L. Arrowood, 26810 Zane Avenue, Elko New Market, Minnesota 55020, United States of America, Citizen of United States of America; Anand S. Badami, 5202 Dale Street, Midland, Michigan 48642, 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; Steven Rosenberg, 5725 Brentridge Drive, Shorewood, Minnesota 55331, United States of America, Citizen of United States of America; and Huang Wu, 4608 Lund Drive, Midland, Michigan 488642, United States of America, Citizen of People's Republic of China

of the invention entitled:

COMPOSITE POLYAMIDE MEMBRANE WITH IMPROVED STRUCTURE

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

th's 10 day of April, 20 13

CORP.
SEAL

DOW GLOBAL TECHNOLOGIES LLCBy: 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 April, 2013, 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