

TRUE COPY

TO ALL TO WHOM THESE PRESENTS SHALL COME,

I Do Hereby Certify that the annexed document(s) are TRUE COPIES of the original document(s) which I have compared. The original document(s) contains the authentic signature(s) from the inventor(s).

at Freeport, Texas 77541, USA
 this 8th day of July 20 16

Jenna Boyd
Jenna Boyd
 Office Professional
 THE DOW CHEMICAL COMPANY

NOTARIAL CERTIFICATE

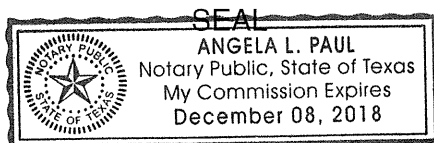
UNITED STATES OF AMERICA)
 STATE OF **TEXAS**) SS
 County/Parish of **Brazoria**)

On this 8th day of July 20 16, personally
 appeared before me,

Jenna Boyd

known or identified to me to be the individual who executed the foregoing document and acknowledged the same as a free act and deed for uses and purposes therein expressed.

Angela L. Paul
 Notary Public



[illegible]

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

Rebecca Sue Hollingshead
NOTARY PUBLIC, MIDLAND COUNTY, MICHIGAN
MY COMMISSION EXPIRES November 25, 2018

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

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

FORM 110 (R 5/97)

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: **MICROCAPILLARY FILMS**

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

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
61/939,313	February 13, 2014	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: Plano TX
this 16 day of August, 20 14
Effective as of February 13, 2014
Signature: Julie W. McKenna
Full Name: Julie W. McKenna
Residence: 3209 Estes Park Lane
McKinney, Texas 75070
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 the time the invention was made.

At: Spring House, PA 19477, USA
this _____ day of _____, 20 ____
Effective as of February 13, 2014
Signature: _____
Full Name: Debkumar Bhattacharjee
Residence: 170 Birkdale Drive
Blue Bell, Pennsylvania 19422
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 February 13, 2014
Signature: _____
Full Name: Joseph Dooley
Residence: 3645 East Hubbard 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: Midland, Michigan 48674, USA
this _____ day of _____, 20 ____
Effective as of February 13, 2014
Signature: _____
Full Name: Wenyi Huang
Residence: 617 Eastlawn Dr Apt 201
Midland, Michigan 48640
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

(X) Additional names and signatures are attached.

[illegible]

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(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:

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

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.

Subscribed and Declared by me/us:

At: _____ Midland, Michigan 48674, USA
this _____ day of _____, 20 _____
Effective as of February 13, 2014

Signature: _____
Full Name: Wenyi Huang
Residence: 617 Eastlawn Dr Apt 201
Midland, Michigan 48640
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

(X) Additional names and signatures are attached.

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: **MICROCAPILLARY FILMS**

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Dow Global Technologies LLC
2040 Dow Center
Midland, Michigan 48674

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Subscribed and Declared by me/us:

At: _____
 this _____ day of _____, 20 _____
 Effective as of February 13, 2014

Signature: _____

Full Name: Julie W. McKenna
 Residence: 3209 Estes Park Lane
 McKinney, Texas 75070

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 the time the invention was made.

At: _____ Spring House, PA 19477, USA
this _____ day of _____, 20____
Effective as of February 13, 2014

Signature: _____
Full Name: Debkumar Bhattacharjee
Residence: 170 Birkdale Drive
Blue Bell, Pennsylvania 19422
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 20TH day of MARCH, 20 14
Effective as of February 13, 2014

Signature: Joseph Dooley
Full Name: Joseph Dooley
Residence: 3645 East Hubbard 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: _____ Midland, Michigan 48674, USA
this _____ day of _____, 20 ____
Effective as of February 13, 2014

Signature: _____
Full Name: Wenyi Huang
Residence: 617 Eastlawn Dr Apt 201
Midland, Michigan 48640
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

(X) Additional names and signatures are attached.

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2040 Dow Center
Midland, Michigan 48674

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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.

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Subscribed and Declared by me/us:

At: _____
this _____ day of _____, 20 _____
Effective as of February 13, 2014

Signature: _____
Full Name: Julie W. McKenna
Residence: 3209 Estes Park Lane
McKinney, Texas 75070
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 the time the invention was made.

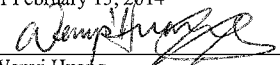
At: Spring House, PA 19477, USA
this _____ day of _____, 20 _____
Effective as of February 13, 2014

Signature: _____
Full Name: Debkumar Bhattacharjee
Residence: 170 Birkdale Drive
Blue Bell, Pennsylvania 19422
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 February 13, 2014

Signature: _____
Full Name: Joseph Dooley
Residence: 3645 East Hubbard 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: Midland, Michigan 48674, USA
this 21 day of March, 20 14
Effective as of February 13, 2014

Signature: 
Full Name: Wenyi Huang
Residence: 617 Eastlawn Dr Apt 201
Midland, Michigan 48640
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

(X) Additional names and signatures are attached.

Additional names, addresses and signatures to be attached to Form No. 110 **INDIVIDUAL ASSIGNMENT AND INVENTORS DECLARATION**

At: Midland, Michigan 48674, USA
this 19th day of March, 20 14
Effective as of February 13, 2014
Signature: Todd O. Pangburn
Full Name: Todd O. Pangburn
Residence: 4000 E. Monroe Rd
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: Freeport, Texas 77541, USA
this _____ day of _____, 20 _____
Effective as of February 13, 2014
Signature: _____
Full Name: Rajen M. Patel
Residence: 220 Arrowhead Drive
Lake Jackson, Texas 77566
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

Additional names, addresses and signatures to be attached to Form No. 110 **INDIVIDUAL ASSIGNMENT AND INVENTORS DECLARATION**

At: Midland, Michigan 48674, USA
this _____ day of _____, 20 ____
Effective as of February 13, 2014

Signature: _____

Full Name: Todd O. Pangburn
Residence: 4000 E. Monroe Rd
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: Freeport, Texas 77541, USA
this 22 day of April, 20 14
Effective as of February 13, 2014

Signature: Rajen M. Patel

Full Name: Rajen M. Patel
Residence: 220 Arrowhead Drive
Lake Jackson, Texas 77566
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