

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT6948903

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
ARJUN RAGHURAMAN	08/13/2019
WILLIAM H. HEATH	08/12/2019
SKRIT MUKOPADHYAY	06/07/2019
HEATHER A SPINNEY	06/10/2019
DAVID R. WILSON	06/10/2019
JUSTIN M NOTESTEIN	06/20/2019
SONBINH T NGUYEN	07/19/2019
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:	16644310
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:	989-636-2884
Email:	FGLMFRR@dow.com
Correspondent Name:	DANNY CHILDS
Address Line 1:	2211 H.H. DOW WAY
Address Line 2:	SSC-1338
Address Line 4:	MIDLAND, MICHIGAN 48674
ATTORNEY DOCKET NUMBER:	81156-US-PCT
NAME OF SUBMITTER:	DANNY CHILDS
SIGNATURE:	/Danny Childs/
DATE SIGNED:	10/01/2021

PATENT

Total Attachments: 8

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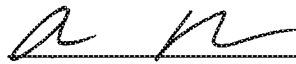
TRUE COPY

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 Lake Jackson, Texas 77566 USA

this 6th day of February 2020



Amber Nelson
Office Professional
THE DOW CHEMICAL COMPANY


NOTARIAL CERTIFICATE

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

On this 6th day of February 2020, personally
appeared before me,

Amber Nelson

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.



Notary Public

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: **PROCESS OF MANUFACTURING POLYOLS**

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, United States of America (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
PCT/ US2018/050991	September 14, 2018	International

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: Lake Jackson, Texas 77566 USA
 this 13th day of AUGUST, 2019
 Effective as of September 14, 2018
 Signature: Mur
 Full Name: Arjun Raghuraman
 Mailing Address: 230 Abner Jackson Parkway
Lake Jackson, Texas 77566
United States of America

At: Lake Jackson, Texas 77566 USA
this _____ day of _____, 20 _____
Effective as of September 14, 2018

Signature: _____
Full Name: William H. Heath
Mailing Address: 230 Abner Jackson Parkway
Lake Jackson, Texas 77566
United States of America

At: _____ Midland, Michigan 48674 USA
this _____ day of _____, 20 _____
Effective as of September 14, 2018

Signature: _____
Full Name: Sukrit Mukhopadhyay
Mailing Address: 1776 Building
Midland, Michigan 48674
United States of America

At: _____ Midland, Michigan 48674 USA
this _____ day of _____, 20 _____
Effective as of September 14, 2018

Signature: _____
Full Name: Heather A. Spinney
Mailing Address: 1776 Building
Midland, Michigan 48674
United States of America

At: Lake Jackson, Texas 77566 USA
this _____ day of _____, 20 _____
Effective as of September 14, 2018

Signature: _____
Full Name: David R. Wilson
Mailing Address: 1776 Building
Midland, Michigan 48674
United States of America

At: _____
 this _____ day of _____, 20____
 Effective as of September 14, 2018

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.

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: **PROCESS OF MANUFACTURING POLYOLS**

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, United States of America (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
PCT/ US2018/050991	September 14, 2018	International

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: Lake Jackson, Texas 77566 USA
this 12th day of August, 20 18
Effective as of September 14, 2018
Signature: _____
Full Name: Arjun Raghuraman
Mailing Address: 230 Abner Jackson Parkway
Lake Jackson, Texas 77566
United States of America

At: Lake Jackson, Texas 77566 USA
this 12th day of August, 20 18
Effective as of September 14, 2018
Signature: _____
Full Name: William H. Heath
Mailing Address: 230 Abner Jackson Parkway
Lake Jackson, Texas 77566
United States of America

At: Midland, Michigan 48674 USA
this 7th day of June, 20 19
Effective as of September 14, 2018
Signature: _____
Full Name: Sukrit Mukhopadhyay
Mailing Address: 1776 Building
Midland, Michigan 48674
United States of America

At: Midland, Michigan 48674 USA
this 10th day of June, 20 19
Effective as of September 14, 2018
Signature: _____
Full Name: Heather A. Spinnery
Mailing Address: 1776 Building
Midland, Michigan 48674
United States of America

At: Midland, Michigan 48674 USA
this 10th day of June, 20 19
Effective as of September 14, 2018
Signature: _____
Full Name: David R. Wilson
Mailing Address: 1776 Building
Midland, Michigan 48674
United States of America

At: _____
this _____ day of _____, 20 _____
Effective as of September 14, 2018
Signature: _____
Full Name: _____
Mailing Address: _____

ASSIGNMENT

Application Serial No: PCT/US2018/050991

Filing Date: 9/14/2018

Inventors: Justin M Notestein, Sonbinh T Nguyen

Title of Patent Application: Process of Manufacturing Polyols

For good and valuable consideration, the receipt and sufficiency of which are hereby agreed, each of the undersigned hereby assigns to Northwestern University, an Illinois not-for-profit corporation, having a place of business at 633 Clark Street, Evanston, Illinois 60208 and its successors and assigns ("Assignee") the entire right, title and interest in and to the inventions of such undersigned disclosed in the application listed above, and in any and all other applications anywhere in the world which the undersigned may file and/or be named as an inventor of, solely or jointly, on said inventions, in any and all patents which may be obtained on any of said applications and in any and all reissues, reexaminations, supplemental examinations, inter partes reviews, oppositions, post-grant reviews, supplementary protection certificates and/or extensions thereof, including without limitation, the right to bring suit and to claim and retain all damages and/or seek other remedies for the past, present and future infringement of any of the foregoing, the right of priority, including without limitation to claim priority benefit of or to said patent applications, and request the Commissioner for Patents in the United States and similar authorities outside the United States to issue said patents to and in the name of the Assignee.

Each of the undersigned states that the application listed above is or was made or authorized to be made by him or her. Each of the undersigned believes himself or herself to be the original inventor or a joint inventor with another undersigned of a claimed invention in the application listed above. Each of the undersigned acknowledges that any willful false statement made by him or her in this paragraph is punishable under 18 U.S.C. §1001 by fine or imprisonment of not more than five years, or both.

Except in favor of Assignee, each of the undersigned warrants that: (i) he or she is the owner of all its rights, titles and interests herein assigned and has the right to make this unconditional and irrevocable assignment to Assignee without obtaining any approval or permission of a third party; and (ii) there are no outstanding encumbrances, liens, prior assignments, licenses, or other obligations or restrictions on the rights, titles and interests herein assigned.

Upon the request of Assignee and at no expense to the undersigned, each of the undersigned hereby agrees to execute any and all applications on said inventions, including without limitation for the reissue, reexamination, supplementary protection certificate or extension thereof and any oath, declaration or

affidavit relating thereto that said Assignee may deem necessary or expedient, and to cooperate to the best of the ability of the undersigned with and perform any and all affirmative acts requested by Assignee to prepare, file, prosecute, maintain, defend, enforce and vest in Assignee the rights, titles and interests assigned herein, including without limitation, preparing and executing statements and giving and producing evidence in support thereof, whereby said rights, titles and interests will be held and enjoyed by said Assignee to the full end of the term for which said patents may be granted as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment had not been made.

(Continued on next page)

Attorney Docket No. 81156-WO-PCT
 NU Reference No. 2017-166-05

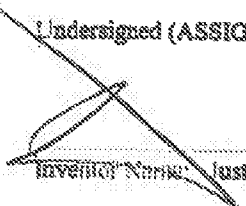
Application Serial No: PCT/US2018/030991

Filing Date: 9/14/2018

Inventors: Justin M Notestein, Sonbinh T Nguyen

Title of Patent Application: Process of Manufacturing Polyols

Undersigned (ASSIGNORS):

 Justin M Notestein 6/20/18
 Inventor Name DATE

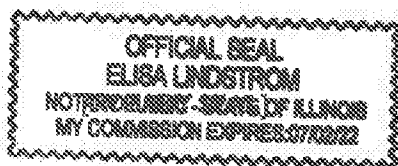
State of IL

County of Cook ss.

On this 20 day of June, 2018, before me, a Notary Public in and for the County and State aforesaid, appeared, to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he or she executed said instrument as his or her free and voluntary act and for the uses and purposes therein expressed.



NOTARY PUBLIC



My Commission Expires: 07/02/22

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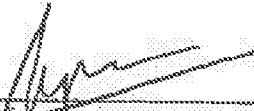
Application Serial No: PCT/US2018/050991

Filing Date: 9/14/2018

Inventors: Justin M Notestein, Sonbinh T Nguyen

Title of Patent Application: Process of Manufacturing Polyols

Undersigned (ASSIGNORS) continued:

 7/19/19
Inventor Name: Sonbinh T Nguyen DATE

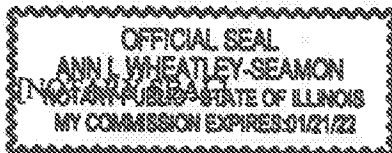
State of ILLINOIS

SS.

County of Cook

On this 19th day of July, 2019, before me, a Notary Public in and for the County and State aforesaid, appeared, to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he or she executed said instrument as his or her free and voluntary act and for the uses and purposes therein expressed.


NOTARY PUBLIC



My Commission Expires: 1-21-22

(Continued on next page)

Application Serial No: PCT/US2018/050991

Filing Date: 9/14/2018

Inventors: Justin M Notestein, Sonbinh T Nguyen

Title of Patent Application: Process of Manufacturing Polyols

ASSIGNEE ACCEPTANCE: Northwestern University:

On behalf of Northwestern University, Assignee, the authorized signatory below, hereby confirms Assignee's acceptance of all rights, privileges, titles and interests conveyed by this Assignment.

Authorized Signature: Heather Fletcher

Date: 8/6/19

Printed Name

Lolita Buckingham, Invention Specialist, or

Heather Fletcher, Manager of INVO Docketing & Compliance, or

Nicole Janovick, Ph.D., J.D., Assistant Director, IP & Transactions

Department: Innovation and New Ventures Office (INVO)