

05-26-2004



102753508

3ET

Assistant Commissioner for Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

John P. Henley
Mark E. Jones
Daniel A. Hickman
Kenric A. Marshall

Daniel J. Reed
William D. Clarke
Michael M. Olken
Lee E. Walko

2. Name and address of receiving party(ies):

THE DOW CHEMICAL COMPANY
2030 Dow Center
Midland, Michigan 48674
UNITED STATES OF AMERICA

☐ Additional name(s) of conveying party(ies) is attached.

☐ Additional name(s) & address(es) are attached.

3. Nature of conveyance:

☒ Assignment

☐ Security Agreement

☐ Other _____

☐ Merger

☐ Change of Name

Execution Date(s) November 6, 7, December 11, 14, 15, 17, January 4, 2001
Effective as of October 6, 2000

3. Application Number(s) or Patent Number(s):

10/130,103 May 14, 2002

2001 MAY 24 AM 8:23
OPR/FINANCE

5. Name and address of party to whom correspondence concerning document should be mailed:

The Dow Chemical Company
Intellectual Property
P. O. Box 1967
Midland, Michigan 48641-1967
United States of America

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41) \$40.00

☐ Enclosed

☒ Please deduct the above fee from our Deposit Account

8. **Deposit Account 04-1512.** If this estimate is incorrect, please debit or credit our account accordingly.

DO NOT USE THIS SPACE

9. Statement and signature:

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Dated: May 20, 2004

60,020 Orig 1 US

Crystal S. Rohde
Office Professional
(989) 636-1954

05/25/2004 MGETACHE 00000121 041512 10130103

Total number of pages including attachments: 8

01 FC:8021

40.00 DA

PATENT
REEL: 015357 FRAME: 0659

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 FOR VINYL CHLORIDE MANUFACTURE FROM ETHANE AND ETHYLENE WITH IMMEDIATE HCl RECOVERY FROM REACTOR EFFLUENT

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:

THE DOW CHEMICAL COMPANY

2030 Dow Center

Midland, Michigan 48674

United States of America

a corporation organized and existing under the laws of the State of **DELAWARE**, U.S.A.

(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

Application No. **PCT/US00/27700** Filing Date **October 6, 2000**

in country **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; and I/we do hereby authorize Assignee or its designee (or nominee(s)) to insert here any corresponding equivalent

Application No. 10/130,103 Filing Date May 14, 2002

Application No. 101-13041-83 Filing Date
in country United States of America

to the above Priority application of any country where that country's patent property must be identified and entered hereinabove for recordal of this Assignment. 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:

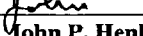
At: Midland, Michigan 48674, USA
 this 19 day of December, 2000
 Effective as of October 6, 2000

Signature: Daniel A Hickman

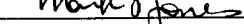
Full Name: **Daniel A. Hickman**
 Residence: **2010 Westbury Drive**
Midland, Michigan 48642

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 14 day of December, 2000
Effective as of October 6, 2000

Signature: 
Full Name: **John P. Henley**
Residence: **5900 Schade Drive
Midland, Michigan 48640**
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 15 day of DECEMBER, 2000
Effective as of October 6, 2000

Signature: 

Full Name: **Mark E. Jones**
Residence: **3856 Ken's 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: Freeport, Texas 77541, USA
this 6th day of November, 2000
Effective as of October 6, 2000

Signature: *Kenric A. Marshall*
Full Name: **Kenric A. Marshall**
Residence: **245 Rabbit Trail**
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**

☒ (X) Additional names and signatures are attached.

PATENT
REEL: 015357 FRAME: 0660

this 7 day of November 2000
Effective as of October 6, 2000

Of Country: **United States of America**

this 11 day of December 2002
Effective as of October 6, 2000

Of Country: **United States of America**

this 15 day of December 2000
Effective as of October 6, 2000

Of Country: **United States of America**

this 4 day of Jan. 2001
Effective as of October 6, 2000

Of Country: **United States of America**

At: _____
this _____ day of _____ 20____

Residence:

Of Country:

At: _____
this _____ day of _____ 20____

Residence:

Of Country:

At: _____
this _____ day of _____ 20____

Residence:

Of Country:

At: _____
this _____ day of _____ 20____

Residence:

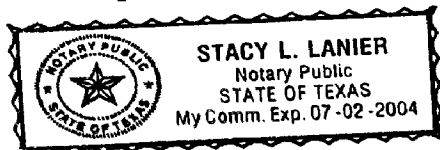
Of Country:

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

On this 6th day of November, 2000, personally appeared

Kenric A. Marshall

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.



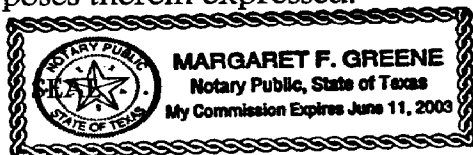
Stacy L. Janion
Notary Public

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

On this 7th day of November, 2000, personally appeared
before me,

Daniel J. Reed

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.



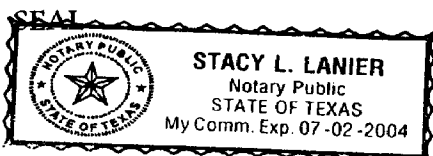
Margaret F. Greene
Notary Public

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

On this 11th day of Dec., 2000, personally appeared

William D. Clarke

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.



Stacy L. Lamm
Notary Public

FORM 222

Docket Ref. **60020 ORIG 1**

NOTARIAL CERTIFICATE (INDIVIDUAL)

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

On this 19th day of December, 2000, personally appeared

Daniel A. Hickman

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.

SEAL

Jennifer S. Havercamp
Notary Public
JENNIFER S. HAVERCAMP
NOTARY PUBLIC, RAY COUNTY, MICHIGAN

JENNIFER S. HAVERCAMP
NOTARY PUBLIC, BAY COUNTY, MICHIGAN
ACTING IN MIDLAND COUNTY, MICHIGAN
MY COMMISSION EXPIRES MAY 12, 2002

NOTARIAL CERTIFICATE (INDIVIDUAL)


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

On this 14th day of December, 2008, personally appeared

John P. Henley

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.

SEAL


Notary Public
JENNIFER S. HAVERCAMP
NOTARY PUBLIC - CALIFORNIA

JENNIFER S. HAVERCAMP
NOTARY PUBLIC, BAY COUNTY, MICHIGAN
ACTING IN MIDLAND COUNTY, MICHIGAN
MY COMMISSION EXPIRES MAY 12, 2002

NOTARIAL CERTIFICATE (INDIVIDUAL)

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

On this 15th day of December, 2020, personally appeared _____

Mark E. Jones

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.

SEAL

Jennifer S. Haverkamp
Notary Public

JENNIFER S. HAVERCAMP
NOTARY PUBLIC, BAY COUNTY, MICHIGAN
ACTING IN MIDLAND COUNTY, MICHIGAN
MY COMMISSION EXPIRES MAY 12, 2002

PATENT

REEL: 015357 FRAME: 0663

[illegible]

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: **THE DOW CHEMICAL COMPANY**
2030 Dow Center
Midland, Michigan 48674
UNITED STATES OF AMERICA

hereby accept the ASSIGNMENT attached hereto which is dated: **November 6, 2000, November 7, 2000, December 11, 2000, December 14, 2000, December 15, 2000, December 19, 2000, and January 4, 2001**

From, the ASSIGNOR:

Daniel A. Hickman, 2010 Westbury Drive, Midland, Michigan 48642, United States of America;
John P. Henley, 5900 Schade Drive, Midland, Michigan 48640, United States of America;
Mark E. Jones, 3856 Ken's Lane, Midland, Michigan 48642, United States of America;
Kenric A. Marshall, 245 Rabbit Trail, Lake Jackson, Texas 77566, United States of America;
Daniel J. Reed, 9 La Paloma Court, Angleton, Texas 77515, United States of America;
William D. Clarke, Box 894, Brazoria, Texas 77422, United States of America;
Michael M. Olken, 2700 Mount Vernon Drive, Midland, Michigan 48642, United States of America;
Lee E. Walko, 809 Honeysuckle Circle, Midland, Michigan 48642, United States of America

of the invention entitled:

PROCESS FOR VINYL CHLORIDE MANUFACTURE FROM ETHANE AND ETHYLENE WITH IMMEDIATE HCl RECOVERY FROM REACTOR EFFLUENT

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 5 day of May, 2004

CORP.
SEAL

THE DOW CHEMICAL COMPANY

By: Graham E. Taylor
GRAHAM E. TAYLOR
Authorized Representative

NOTARIAL CERTIFICATE (Corporation)

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

On this 5 day of May, 2004, personally appeared before me, **GRAHAM E. TAYLOR, 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 Corporation incorporated under the laws of the **State of Delaware, United States of America**.

I further certify that said authority, dated **February 13, 2003**, is based on

an authorization Policy of the said Corporation,

which I have seen, appointing the said individual **Attorney-in-fact** with full power to sign the foregoing document on behalf of the said corporation and that the purposes for which said document is granted are within the scope of the objects or activities of said corporation.

SEAL

Notary Public

Ann Heritier
Notary Public, Bay County, Michigan
Acting in Midland County
My Commission Expires December 03, 2006

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

PATENT
REEL: 015357 FRAME: 0665


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.

at Midland, Michigan 48674, USA

this 20th day of May 2004


Crystal S. Rohde
Office Professional
THE DOW CHEMICAL COMPANY

NOTARIAL CERTIFICATE

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

On this 20th day of May 2004, personally appeared
 before me,

Crystal S. Rohde

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.

SEAL



 Notary Public

Abby Doyle
 Notary Public, Saginaw County, Michigan
 Acting in Midland County, Michigan
 My Commission Expires September 27, 2005