FORM PTO-1595 Rev. 08/28/92

05-26-2004

(EET

U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

102753507 Assistant Commissioner for Patents and Trademarks: Please record the attached original documents or copy thereof. Name and address of receiving party(ies): 1. Name of conveying party(ies): DOW GLOBAL TECHNOLOGIES INC. THE DOW CHEMICAL COMPANY Washington Street 2030 Dow Center 1790 Building Midland, Michigan 48674 Midland, Michigan 48674 UNITED STATES OF AMERICA UNITED STATES OF AMERICA Additional name(s) of conveying party(ies) is attached. Additional name(s) & address(es) are attached. 3. Nature of conveyance: x Assignment ☐ Merger ☐ Security Agreement ☐ Change of Name Other ___ Execution Date(s) May 5, 2004 4. Application Number(s) or Patent Number(s): WAY 24 AM 8: 10/130,102 May 14, 2002 Name and address of party to whom correspondence 6. Total number of applications and patents concerning document should be mailed: involved: 1 Total fee (37 CFR 3.41) \$40.00 The Dow Chemical Company ☐ Enclosed Intellectual Property ☑ Please deduct the above fee from our Deposit P. O. Box 1967 Midland, Michigan 48641-1967 8. Deposit Account 04-1512. If this estimate is United States of America 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 2 US

Office Professional (989) 636-1954

Total number of pages including attachments: 5

05/25/2004 MGETACHE 00000122 041512 10130102

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PATENT REEL: 015357 FRAME: 0157 This Assignment 440 is in the ENGLISH language and has the same meaning in other languages with the same 440 number. FORM 440

ASSIGNMENT

(with Priority Rights)

INVENTORSHIP DECLARATION

We, ASSIGNOR, of:

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, United States of America do hereby claim and declare that we hold the invention and all patent and other rights and powers obtainable or exercisable in respect thereof from the sole, true and first inventor(s):

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; Daniel A. Hickman, 2010 Westbury Drive, 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 an invention relating to and entitled:

PROCESS FOR VINYL CHLORIDE MANUFACTURE FROM ETHANE AND ETHYLENE WITH PARTIAL HC1 RECOVERY FROM REACTOR EFFLUENT

We do hereby declare, for good and valuable consideration effective as of October 6, 2000 received, sell, assign, and transfer unto:

WE, the ASSIGNEE:

DOW GLOBAL TECHNOLOGIES INC.

Washington Street 1790 Building

Midland, Michigan 48674

UNITED STATES OF AMERICA

a corporation organized and existing under the laws of the State of Delaware, United States of America our entire right, title and interest throughout the world, in and to the invention and all rights and powers to make application for Letters Patent in its own name, or in the name of its nominee; and all rights and powers to file any reissue, divisional, continuing or substitute					
application and any corresponding applications in any and all countries, including all rights to claim priority under all					
International Conventions and Treaties in the name of said Assignee, and do hereby authorize said Assignee to insert here the					
Priority Number PCT/US00/27701 and Filing Date October 6, 2000					
inInternational					
of the application on which the priority will be based; and in and to any Letters Patent that may be issued for said invention in					
any and all countries; and we do hereby agree to assist said Assignee in the prosecution of the said applications and in any					
interference, conflict, opposition or litigation which may arise involving said invention or the patent or patents thereon, and to					
execute any reissue, divisional, continuing or substitute application and assent to their making any applications in other					
countries corresponding to the above and below specifically identified application, as may be requested by said Assignee; and					
we do hereby authorize said Assignee to insert here the					
Corresponding Application No. 10/130,102 and Filing Date May 14, 2002					
in United States of America					
of the corresponding application in any country where that patent property must be entered for recordal of this Assignment; and					
we do hereby authorize and request that any such Letters Patent be issued to said Assignee in accordance herewith, and consent					
to the recordal of this Assignment being under covenant, not only that 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 Sworn by us at Midland, Michigan 48674, USA					
this					
//					
THE DOW CHEMICAL COMPANY					
CORP.					
SEAL By:					
GRAHAM E. TAYLOR					

Authorized Representative

Attach Notarial Certificate (Corporation)

PATENT

REEL: 015357 FRAME: 0158

This Notarial Certificate 550 is in the ENGLISH language and has the same meaning in other languages with the same 550 number.

This Notarial Certificate 550 is in the ENGLISH language and has the same meaning in other languages with the same $\,$ 550 number. FORM $\,$ 550

NOTARIAL CERTIFICATE (Corporation)

UNITED STATES OF AMERICA)
STATE OF MICHIGAN) SS
County/Parish of Midland)
On this
I further certify that said authority, dated February 13, 2003, is based on
A Resolution of the Board of Directors 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

PATENT REEL: 015357 FRAME: 0159 This Assignce 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 INC.

Washington Street 1790 Building

Midland, Michigan 48674

UNITED STATES OF AMERICA

hereby accept the ASSIGNMENT attached hereto which is dated:

From, the ASSIGNOR:

THE DOW CHEMICAL COMPANY

2030 Dow Center

Midland, Michigan 48674

UNITED STATES OF AMERICA

of the invention entitled:

PROCESS FOR VINYL CHLORIDE MANUFACTURE FROM ETHANE AND ETHYLENE WITH PARTIAL HC1 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		Midlaı	nd, Michigan 48674, USA		
this	5	_day of	May , 20 04		
			DOW GLOBAL TECHNOLOGIES INC	•	
	CORI	P.			
	SEAL	,			
			By: Noven DWarrick		
			NOREEN D. WARRICK		
			Secretary		

NOTARIAL CERTIFICATE (Corporation)

UNITED STATES OF AMERICA					
STATE OF MICHIGAN	SS				
County/Parish of Midland					
On this day of Mww before me, NOREEN D. WARRICK, See	, 2004, personally appeared				
, ,	• ,				
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 Feb.	ruary 11, 2002, 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

PATENT REEL: 015357 FRAME: 0160

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.

atMidland, Michigan 48674, USA				
this <u>20th</u> day of <u>May</u> 20 <u>04</u>				
Crystal S. Rohde 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 <u>20th</u> day of <u>May</u> 20 <u>04</u> , 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.				
Notary Public Abby Doyle Notary Public, Saginaw County, Michigan Acting a Midland County, Michigan Adv Communication September 27, 2005				

PATENT
RECORDED: 05/24/2004 REEL: 015357 FRAME: 0161