FORM PTO-1595 JAN 1 979 Rev. 08/28/92

RECO:



. DEPARTMENT OF COMMERCE Patent and Trademark Office

Assistant Commissioner for Patents and Trademarks: Pl	ease record the attached original documents or copy thereof.
Name of conveying party(ies):     Paul C. Vosejpka     Dennis A. Hucul     Bob R. Maughon     Larry N. Ito     Robert M. Campbell	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:  x Assignment  Security Agreement  Other	☐ Merger ☐ Change of Name
Execution Date(s) December 15, 16, 17, 20	), 1999 Effective as of December 16, 1999
4. Application Number(s) or Patent Number(s):	
If this document is being filed together with a new a	
F. Name and address of party to whom correspondence	
Name and address of party to whom correspondence concerning document should be mailed:      Graham E. Taylor	6. Total number of applications and patents involved: 1  7. Total fee (37 CFR 3.41) \$40.00
concerning document should be mailed:  Graham E. Taylor  The Dow Chemical Company Intellectual Property P. O. Box 1967	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
concerning document should be mailed:  Graham E. Taylor  The Dow Chemical Company Intellectual Property	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
Graham E. Taylor 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. <b>Deposit Account 04-1512</b> . If this estimate is incorrect, please debit or credit our account
Concerning document should be mailed:  Graham E. Taylor The Dow Chemical Company Intellectual Property P. O. Box 1967 Midland, Michigan 48641-1967 United States of America	<ul> <li>6. Total number of applications and patents involved: 1</li> <li>7. Total fee (37 CFR 3.41) \$40.00  ☐ Enclosed ☐ Please deduct the above fee from our Deposit Account</li> <li>8. Deposit Account 04-1512. If this estimate is incorrect, please debit or credit our account accordingly.</li> </ul>

44, 287 US

01/24/2002 GTDN11 00000131 041512 09464682

01 FC:581 40.00 CH Total number of pages including attachments: 5

(989) 636-7457

**PATENT** REEL: 012493 FRAME: 0014 FORM 110 (R 5/97)

Subscribe

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

Docket Ref. 44287

## 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 MAKING 2,3-DIHALOPROPANOLS

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. 09/464682 Filing	Date December 16, 1999		
in country the United States of America			
of the application, on which the claim for priority will be based; a	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 inv	volving the invention or the patent or patents thereon, and to		
execute for any and all countries any document relating to applica			
	by authorize Assignee or its designee (or nominee(s)) to <u>insert here</u>		
any corresponding equivalent	y dutionize ressignee of its designee (of nonlinee(s)) to <u>insert neve</u>		
Application NoFiling D	ate.		
in country			
to the above Priority application of any country where that coun	try's patent property must be identified and entered hereinabove		
for recordal of this Assignment. I/we authorize Assignee or its de	esignee 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		
	ower to make the same, but also that such assigned rights are not		
encumbered by any grant, license, or other right heretofore given.			
d and Declared by me/us:			
At: Midland, Michigan 48674, U.S.A.	At: Midland, Michigan 48674, U.S.A.		
this 70 day of DECEMBER 1997	At: Midland, Michigan 48674, U.S.A. this 16 day of 1866 day of 1999		
Effective as of December 16, 1999			
Effective as of Jecember 16, 1999			
Signature:	Signature: News U. Huck		
Full Name: Paul C. Vosejpka	Full Name: Dennis A. Hucul		
Residence: 706 East Chippewa River Road	Residence: 5001 Foxcroft		
Midland, Michigan 48640	Midland, Michigan 48642		
Country: United States of America	Country: United States of America		
Citizenship: United States of America	Citizenship: United States of America		
P. O. Address: Same as Residence	P. O. Address: Same as Residence		
	Employed By: The Dow Chemical Company		
2	Of Country: United States of America		
Of Country: United States of America	Of Country. Cilited States of Affectica		
At: Midland, Michigan 48674, U.S.A.	At: Midland, Michigan 48674, U.S.A.		
this 20 day of DECEMBER 1999	this 17 day of JANNARY 19 2000		
Effective as of December 16, 1999	Effective as of December 16, 1999 Signature:		
Ball			
Signature:	Signature:		
Full Name: Bob R/Maughon	Full Name: Larry N. Ito		
Residence: 601 West Main Street	Residence: 4921 Artcrest Drive		
Midland, Michigan 48640	Midland, Michigan 48640		
Country: United States of America	Country: United States of America		
Citizenship: United States of America	Citizenship: United States of America		
P. O. Address: Same as Residence	P. O. Address: Same as Residence		
Employed By: The Dow Chemical Company	Employed By: The Dow Chemical Company		
Of Country: United States of America	Of Country: United States of America		
[			

FORM 113

Page two of two

Docket Ref. 44287

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

At: Midland, Michigan 48674, U.S.A.	At:	
this 15 day of December 1999	At: day of	19
1	- <b>I</b>	
1/ 1 a M. ( ) 1 111	j	
Signature: July July July July July July July July	Signature:	
Full Name: Robert M. Campbell	Full Name:	
Residence: 2801 Saint Marys Drive	Residence:	
Midland, Michigan 48640	1	
Country: United States of America	Country:	
Citizenship: United States of America	Citizenship:	
P. O. Address: Same as Residence	P. O. Address:	
Employed By: The Dow Chemical Company	Employed By:	
Of Country: United States of America	Of Country:	
Of Country. Officed States of America	,	
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At: this day of 19	At:	
this day of 19	At: day of	19
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Full Name: Residence:  Country: Citizenship:	Signature:Full Name: Residence: Country:	
Full Name: Residence: Country:	Signature: Full Name: Residence:  Country: Citizenship:	

PATENT REEL: 012493 FRAME: 0016 FORM 222

Assignment 222 is in the ENGLISH language and has the same meaning in other languages with the same 222 number and R/Date

Docket Ref. 44287

## NOTARIAL CERTIFICATE (INDIVIDUAL)

UNITED STATES OF AMERICA ) STATE OF MICHIGAN ) County/Parish of Midland )	SS		
On this day of & cell before me,		19 <u>99</u> , personally appeared	
known or identified to me to be the foregoing document and acknowle purposes therein expressed.		cribed in and who executed the	
SEAL		Notary Public KAREN A. LaCROIX Notary Public, Midland County, Michigan My Commission Expires February 10, 2000	
NOTARIAL CERTIFICATE (INDIVIDUAL)			
UNITED STATES OF AMERICA ) STATE OF MICHIGAN ) County/Parish of Midland )	SS		
On this 16 day of 000 before me,			
Dennis A. Hucul 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.			
SEALMMH		Notary Publicary Public, Saginary County, Michigan Acting in Midland County, Michigan My Commission Expires August 22, 2003	
NOTARIAL CERTIFICATE (INDIVIDUAL)			
UNITED STATES OF AMERICA STATE OF MICHIGAN County/Parish of Midland	) ) SS )		
On this 20 <sup>th</sup> day of 2028 before me,		19 <u>99</u> , personally appeared	
known or identified to me to be the foregoing document and acknowle purposes therein expressed.	Bob R. Mau e individual des edged the same	scribed in and who executed the	
SEAL Les		Notary Public KAREN A. LaCROIX  Notary Public, Midland County, Michigan  My Commission Expires February 10, 2000	

**PATENT REEL: 012493 FRAME: 0017**  This Assignment 221 is in the ENGLISH language and has the same meaning in other languages with the same 221 number and R/Date

**RECORDED: 01/14/2002** 

**FORM 221** 

Docket Ref. 44287

## NOTARIAL CERTIFICATE (INDIVIDUAL)

UNITED STATES OF AMERICA ) STATE OF MICHIGAN ) County/Parish of Midland )  On this 17th day of before me,	ss which tary 19200, personally appeared
,	Larry N. Ito
	ndividual described in and who executed the ged the same as a free act and deed for uses and
seal MH MMH NOTARIAL	Notary Public  MELISSA M. HIGGINS  NOTARY PUBLIC, SAGINAW COUNTY, MICHIGAN  ACTING IN MIDLAND COUNTY, MICHIGAN  MY COMMISSION EXPIRES AUGUST 22, 2003  CERTIFICATE (INDIVIDUAL)
UNITED STATES OF AMERICA ) STATE OF MICHIGAN ) County/Parish of Midland )	ss .
On this day of logo before me,	uber 1999, personally appeared
	Robert M. Campbell
	ndividual described in and who executed the ged the same as a free act and deed for uses and
SEAL MMH	Notary Public  MELISSA M. HIGGINS NOTARY PUBLIC, SAGINAW COUNTY MICHIGAN

**PATENT REEL: 012493 FRAME: 0018** 

**ACTING IN MIDLAND COUNTY, MICHIGAN** MY COMMISSION EXPIRES AUGUST 22, 2003