05-03-2002 FACSIMILE OF FORM PTG-1595 SHEET U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE 102077796 To the Honorable Commissioner of Pa ne attached original documents or copy thereof 1. Name of conveying party(ies): Name and address of receiving party(ies): Robert D. Guenard Muhammad A. Shafi Name: The Dow Chemical Company Terry W. Glass Internal Address: Mary A. Luegers Street Address: 2030 Dow Center Additional name(s) of conveying party(ies) attached? ☐ Yes ☐ No 3. Nature of conveyance: City: Midland State: MI Zip: 48674 □ Merger Additional name(s) & address(es) attached? ☐ Yes ⊠ No ☐ Security Agreement ☐ Change of Name ☐ Other _____ Execution Date: 4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: _04/19/02 A. Patent Application No.(s) B. Patent No.(s) Additional numbers attached? ☐ Yes ☐ No 5. Name and address of party to whom correspondence 6. Total number of applications and patents involved: concerning document should be mailed: Name: H. Roy Berkenstock 7. Total fee (37 C.F.R. 3.41) \$40.00 Internal Address: Garvey, Smith, Nehrbass & Doody □ Enclosed Street Address: 8. Deposit account number: 3838 N. Causeway, Suite 3290 50-0694 City: Metairie State: LA Zip: 70002` (Attach duplicate copy of this page if paying by deposit account) 05/02/2002 TDIAZI 00000201 500694 10126252 DO NOT USE THIS SPACE 40.00 CH Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and attached copy is a true copy of the original document. H. Roy Berkenstock Signature Name of Person Signing Total number of pages including cover sheet, attachments and document:

FORM 110 (R 5/97)

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

Docket Ref. 61691

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 AND APPARATUS FOR SPECTROSCOPIC IDENTIFICATION AND SORTING OF BARRIER MATERIALS

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. <u>60/285,479</u>	Filing Date	April 20, 2001
in country the United States of America		
of the application, on which the claim for priority will be ba	ased; and in and to a	any Letters Patent that may be issued for the
invention in any and all countries. I/we do hereby agree to	assist Assignee in th	ne prosecution of the application(s) and in any
interference, conflict, opposition or litigation which may are	ise involving the inv	vention or the patent or patents thereon, and to
execute for any and all countries any document relating to a	applications derived	from, corresponding to or equivalent to the above
identified application as Assignee may request; and I/we do	hereby authorize A	ssignee or its designee (or nominee(s)) to <u>insert here</u>
any corresponding equivalent		
Application No. Fi	ling Date	
in country		
to the above Priority application of any country where that		
for recordal of this Assignment. I/we authorize Assignee o	•	
and we request that any such Letters Patent be issued to Ass	•	C ,
Copy thereof, being under covenant not only that I/we have		the same, but also that such assigned rights are not
encumbered by any grant, license, or other right heretofore	given.	
Lood Dool and become to a		

Subscribed and Declared by me/us:

	At: Freeport, T	exas 77541 U.S.A.
	this 27 day o	of March , 2003
	Effective as of A	April 20, 2001
Į		
i	Signature:	
ļ	Full Name:	Robery D. Guenard
	Residence:	214 Raintree Lane
		Lake Jackson, Texas 77566
	Country:	United States of America
	Citizenship:	United State of America
	P. O. Address:	Same as Residence
I	Employed By:	The Dow Chemical Company
ļ	Of Country:	United States of America

At: Freeport, Texas 77541 U.S.A.		
this 23 day o		_, 20 0 2
Effective as of	April 20, 2001 Manuad	
W\u	hanmad 1	
Signature:	N. A. Shah	
Full Name:	Muhammad A. Shafi	
Residence:	128 Daffodil	
	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	

At: Freeport, 7	exas 77541 U.S.A.	
this \ \ \ day	of Munch	, 20 0 >
Effective as of A	April 20, 2001	
¬	20 ,	0
Signature:	remy W J	Hall
Full Name:	Terry W. Glass	
Residence:	409 Oyster Creek Cour	rt
	Richwood, Texas 7753	1
Country:	United States of Ameri	ca
Citizenship:	United States of Ameri	ca
P. O. Address:	Same as Residence	
Employed By:	The Dow Chemical Co	mpany
Of Country:	United States of Ameri	ca

At: Midland, M	1ichigan 48674 U.S.A.
	of Upril , 2002
Effective as of A	April 20, 2001
$_{ m Signature:} \mathcal{M}$	Pary a Sengers
Full Name:	Mary A. Leugers
Residence:	2659 Brown Wood Trail
	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

FORM 222

NOTARIAL CERTIFICATE (INDIVIDUAL)

NOTATIME CENTIFICATE (INDIVIDUAL)
UNITED STATES OF AMERICA) STATE OF TEXAS) SS County/Parish of Brazoria)
On this 11th day of March , 2002, personally appeared before me,
Robert D. Guenard 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 STACY L. LANIER Notary Public STATE OF TEXAS My Comm Exp. 07-02-2004 STACY L. LANIER Notary Public Notary Public
NOTARIAL CERTIFICATE (INDIVIDUAL)
UNITED STATES OF AMERICA) STATE OF TEXAS) SS County/Parish of Brazoria)
On this 30th day of maccon, 2002, personally appeared before me,
Muhammad A. Shafi 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 STACY L. LANIER Notary Public STACY L. LANIER Notary Public Notary Public Notary Public
NOTARIAL CERTIFICATE (INDIVIDUAL)
UNITED STATES OF AMERICA) STATE OF TEXAS) SS County/Parish of Brazoria)
On this 18th day of Macail , 2007, personally appeared before me,
Terry W. Glass 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.
Stucy & fanci
SEAL STACY L. LANIER Notary Public STATE OF TEXAS My Comm. Exp. 07-02-2004

Docket Ref. 61691

nis Assignment 220 is in the ENGLISH language and has the same meaning in other languages with the same 220 number and R/Date

FORM 220 Docket Ref. 61691

NOTARIAL CERTIFICATE (INDIVIDUAL)

UNITED STATES OF AMERICA STATE OF MICHIGAN SS County/Parish of Midland , 20<u>0</u>, personally appeared

Mary. A. Leugers

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

Melissa M. Higgins-Yaw Notary Public, Saginaw County, Michigan Acting in Midland County, Michigan My commission expires August 22, 2004

PATENT REEL: 012845 FRAME: 0510