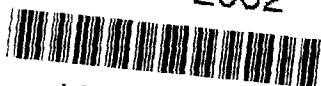




02-11-2002



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U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

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

1. Name of conveying party(ies): Yin H. So Robert A. DeVries Mitchell G. Dibbs Robert L. McGee Edward O. Shaffer, II Michael J. Radler Richard p. DeCaire		2. Name and address of receiving party(ies): THE DOW CHEMICAL COMPANY 2030 Dow Center Midland, Michigan 48674 UNITED STATES OF AMERICA	
<input type="checkbox"/> Additional name(s) of conveying party(ies) is attached.		<input type="checkbox"/> Additional name(s) & address(es) are attached.	
3. Nature of conveyance: x Assignment 1-30-02 <input type="checkbox"/> Security Agreement <input type="checkbox"/> Other _____ Execution Date(s) October 16, 19, 22, 1998 <input type="checkbox"/> Merger <input type="checkbox"/> Change of Name			
4. Application Number(s) or Patent Number(s): <u>09/177,819</u> October 23, 1998 If this document is being filed together with a new application, the execution date of the application is: <input type="checkbox"/> Additional Application Number(s) or Patent Number(s) are attached.			
5. Name and address of party to whom correspondence 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		6. Total number of applications and patents involved: 1 7. Total fee (37 CFR 3.41) \$40.00 <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> 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: January 8, 2002

Carrie Gray
Carrie Gray
Senior Administrative Assistant
(989) 636-7457

43,004 US

02/08/2002 GTDN11 00000184 041512 09177819

01 FC:581

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Total number of pages including attachments: 6

PATENT
REEL: 012552 FRAME: 0587

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

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

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. _____ Filing Date _____
in country _____
to the above Priority application of any country where that country's patent property must be identified and entered hereinabove for record 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 U.S.A.**
 this 19 day of October 1987
 Signature: Ying Hui So
 Full Name: **Ying H. So**
 Residence: **1524 Dilloway 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 U.S.A.**
this 16 day of October 1998

Signature: Robert A. DeVries
Full Name: **Robert A. DeVries**
Residence: **3408 Greenbrier Terrace**
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 U.S.A.
this 17 day of October 1998

Signature: 
Full Name: **Mitchell G. Dibbs**
Residence: **4410 Trailwood Circle South
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 U.S.A.
this 22 day of October 19 98

Signature: _____
Full Name: **Robert L. McGee**
Residence: **3606 Mary Jane 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**

☐ Additional names and signatures are attached.

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

On this 19 day of October 19 98, personally appeared
before me,

Ying H. So

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

HRM

Kora K. Matuzak
Notary Public

LORA R. MATUSZAK
NOTARY PUBLIC, SAGINAW COUNTY, MICHIGAN
ACTING IN MIDLAND COUNTY, MICHIGAN
MY COMMISSION EXPIRES JUNE 22, 2001

NOTARIAL CERTIFICATE (INDIVIDUAL)

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

On this 16 day of October 1998, personally appeared
before me,

Robert A. DeVries

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

pena

Lora R. Matrozak
Notary Public

LORA R. MATUSZAK
NOTARY PUBLIC, SAGINAW COUNTY, MICHIGAN
ACTING IN MIDLAND COUNTY, MICHIGAN
MY COMMISSION EXPIRES JUNE 22, 2001

NOTARIAL CERTIFICATE (INDIVIDUAL)

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

On this 19 day of October 1998, personally appeared

Mitchell G. Dibbs

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

Wm

Lora R. Mamonak
Notary Public

LORA R. MATUSZAK
NOTARY PUBLIC, SAGINAW COUNTY, MICHIGAN
ACTING IN MIDLAND COUNTY, MICHIGAN
MY COMMISSION EXPIRES JUNE 22, 2001

PATENT

REEL: 012552 FRAME: 0590

Docket Ref. 43004

NOTARIAL CERTIFICATE (INDIVIDUAL)

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

On this _____ day of October 19 98, personally appeared _____

Robert L. McGee

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
hnm

Lore L. Hutzinger
Notary Public

LORA R. MATUSZAK
NOTARY PUBLIC, SAGINAW COUNTY, MICHIGAN
ACTING IN MIDLAND COUNTY, MICHIGAN
MY COMMISSION EXPIRES JUNE 22, 2001

NOTARIAL CERTIFICATE (INDIVIDUAL)

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

On this day of October 19 78, personally appeared
before me,

Edward O. Shaffer, II

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
LHM

Kara R. Matson
Notary Public

LORA R. MATUSZAK
NOTARY PUBLIC, SAGINAW COUNTY, MICHIGAN
ACTING IN MIDLAND COUNTY, MICHIGAN
MY COMMISSION EXPIRES JUNE 22, 2001

NOTARIAL CERTIFICATE (INDIVIDUAL)

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

On this 16 day of October 19 78, personally appeared

Michael J. Radler

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

Lara L. Matuzak
Notary Public

LORA R. MATUSZAK
NOTARY PUBLIC, SAGINAW COUNTY, MICHIGAN
ACTING IN MIDLAND COUNTY, MICHIGAN
MY COMMISSION EXPIRES JUNE 22, 2001

PATENT
REEL: 012552 FRAME: 0591

PATENT
REEL: 012552 FRAME: 0592