

11/19/2012



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To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)

Leonid Modestovich Kustov, Aleksey Victorovich Kuchero, Elena Dmitrievna Finashina, Vasily Simanzhenkov and Andrzej Krzywicki

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance/Execution Date(s):

Execution Date(s) 08/22, 08/22, 09/15, 09/15, 09/15 2011, *As per*

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Joint Research Agreement
☐ Government Interest Assignment
☐ Executive Order 9424, Confirmatory License
☐ Other _____

2. Name and address of receiving party(ies)

Name: NOVA Chemicals (International) S.A.

Internal Address: _____

Street Address: Avenue de la Gare 14

City: 1700 Fribourg

State: _____

Country: Switzerland

Zip: _____

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application or patent number(s):

☐ This document is being filed together with a new application.

A. Patent Application No.(s)

B. Patent No.(s)

13/614,754

Additional numbers attached? ☐ Yes ☒ No

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

Name: Kenneth H Johnson

Internal Address: _____

Street Address: P. O. Box 630708

City: Houston

State: Texas

Zip: 77263

Phone Number: 713 780-7047

Fax Number: 713 780-7671

Email Address: kenneth-h-johnson@sbcglobal.net

6. Total number of applications and patents involved: _____

7. Total fee (37 CFR 1.21(h) & 3.41) \$40.00

- ☐ Authorized to be charged to deposit account
☒ Enclosed
☐ None required (government interest not affecting title)

8. Payment Information

Deposit Account Number _____

11/20/2012 KNGUYEN1 00000052 13614754
Authorized User Name
01 FC:0021

40.00 OP

9. Signature:

Kenneth H Johnson
Signature

11/08/2012
Date

KENNETH H JOHNSON

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

4

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, V.A. 22313-1450

PATENT
REEL: 029368 FRAME: 0555

WORLD WIDE ASSIGNMENT

In consideration of One (\$1.00) Dollar and other good and valuable consideration, the receipt whereof is hereby acknowledged, we,

Leonid Modestovich Kustov, a Russian citizen residing at Khalturinskaya str. 11, apt. 30, 107392 Moscow, Russia;

Aleksey Victorovich Kucherov, a Russian citizen residing at Bratskaya str. 17/2, apt. 197, 111397 Moscow, Russia;

Elena Dmitrijevna Finashina, a Russian citizen residing at Kievskaya str. 16, apt. 39, 121165 Moscow, Russia;

Vasily Simanzhenkov, a Canadian citizen residing at 484 Rocky Ridge Drive N.W., Calgary, Alberta, Canada, T3G 5C3;

Andrzej Krzywicki, a Canadian citizen residing at 2403 Westmount Road NW, Calgary, Alberta, Canada, T2N 3N9;

do hereby sell, assign and transfer to **NOVA Chemicals (International) S.A.**, a corporation of Switzerland, having an office at Avenue de la Gare 14, 1700 Fribourg, Switzerland, its successors and assigns, all our right, title and interest in and to our invention entitled:

"Membrane-Supported Catalysts and the Process of Oxidative Dehydrogenation of Ethane Using the Same"

in Canada and in all other countries of the world.

We further undertake to execute without further consideration all lawful papers, all divisional, continuing and reissue applications, make all rightful oaths, and generally do everything possible to assist and enable the said **NOVA Chemicals (International) S.A.**, its successors, assigns and nominees, to obtain and enforce proper patent protection for the said invention.

This indenture shall be binding upon and enure to the benefit of the heirs, executors, administrators, successors and assigns, respectively, of the parties hereto.

SIGNED in the City of Moscow, in the Country of Russia, this 22 day of August 2011.

WITNESS:

Leonid Modestovich Kustov

AFFIDAVIT OF EXECUTION

I, Alexey Sakharov, whose full post office address is 119991 Moscow, Leninsky prospect 47, Russia

MAKE OATH AND SAY:

That I was personally present and did see **Leonid Modestovich Kustov** who is personally known to me to be the person named in this assignment duly sign and execute the same.

SWORN before me at the City of Moscow, in the Country of Russia, this 22 day of August, 2011

A Notary Public



Alexey Sakharov

SIGNED in the City of Moscow, in the Country of Russia, this 22 day of August 2011.

WITNESS:

Kuch
Aleksey Victorovich Kuchеров

AFFIDAVIT OF EXECUTION

I, Alexey Sakharov, whose full post office address is 119991 Moscow
47 Leninsky prospect, Russia

MAKE OATH AND SAY:

That I was personally present and did see **Aleksey Victorovich Kuchеров** who is personally known to me to be the person named in this assignment duly sign and execute the same.

SWORN before me at the City)
of Moscow, in the Country)
of Russia, this 22 day of)
August, 2011)



Sakharov

A Notary Public

SIGNED in the City of Moscow, in the Country of Russia, this 22 day of August 2011.

WITNESS:

Fin
Elena Dmitrievna Finashina

AFFIDAVIT OF EXECUTION

I, Alexey Sakharov, whose full post office address is 119991 Moscow
47 Leninsky prospect, Russia

MAKE OATH AND SAY:

That I was personally present and did see **Elena Dmitrievna Finashina** who is personally known to me to be the person named in this assignment duly sign and execute the same.

SWORN before me at the City)
of Moscow, in the Country)
of Russia, this 22 day of)
August, 2011)



Sakharov

A Notary Public

SIGNED in the City of Calgary, in the Country of Canada, this 15 day of September 2011.

WITNESS:

Kim Overland

Vasily Simanzhenkov

AFFIDAVIT OF EXECUTION

I, Kim Overland, whose full post office address is c/o NOVA Chemicals Corporation, 2928 - 16 Street NE, Calgary, Alberta, Canada, T2E 7K7

MAKE OATH AND SAY:

That I was personally present and did see **Vasily Simanzhenkov** who is personally known to me to be the person named in this assignment duly sign and execute the same.

SWORN before me at the City)
of Calgary, in the Country)
of Canada, this 15 day of)
September, 2011)
Sharon Holt)
A Notary Public

Kim Overland

SIGNED in the City of Calgary, in the Province of Alberta, this 15th day of September, 2011.

WITNESS:

Kim Overland

Andrzej Krzywicki

AFFIDAVIT OF EXECUTION

I, Kim Overland, whose full post office address is c/o NOVA Chemicals Corporation, 2928 - 16 Street NE, Calgary, Alberta, Canada, T2E 7K7

MAKE OATH AND SAY:

That I was personally present and did see **Andrzej Krzywicki** who is personally known to me to be the person named in the attached assignment duly signed and execute the same.

SWORN before me at the City)
of Calgary, in the Province)
of Alberta, this 15 day of)
September, 2011)
Sharon Holt)
A Notary Public in and for the
Province of Alberta

Kim Overland