

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5624061

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
XIAOLIANG GAO	07/10/2019
MARIE BARNES	07/11/2019
VASILY SIMANZHENKOV	07/10/2019
ELENA SEBASTIAO	07/10/2019
DAVID SULLIVAN	07/10/2019
YOONHEE KIM	07/10/2019
RECEIVING PARTY DATA	
Name:	NOVA CHEMICALS (INTERNATIONAL) S.A.
Street Address:	AVENUE DE LA GARE 14
City:	FRIBOURG
State/Country:	SWITZERLAND
Postal Code:	1700
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16515105
CORRESPONDENCE DATA	
Fax Number:	(412)490-4359
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
Phone:	412-490-4323
Email:	Karen.Lockhart@novachem.com
Correspondent Name:	NOVA CHEMICALS INC./KAREN S. LOCKHART
Address Line 1:	1555 CORAOPOLIS HEIGHTS ROAD
Address Line 4:	MOON TOWNSHIP, PENNSYLVANIA 15108
ATTORNEY DOCKET NUMBER:	2018026 USA-NONP
NAME OF SUBMITTER:	KAREN S LOCKHART
SIGNATURE:	/karen s lockhart/
DATE SIGNED:	07/18/2019
Total Attachments: 5	

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ASSIGNMENT

WHEREAS:

Xiaoliang Gao, a Canadian citizen residing at 811 Edgemont Road NW, Calgary, Alberta, Canada, T3A 2J1;

Marie Barnes, a Canadian citizen residing at 154 Rocky Ridge Point N.W., Calgary, Alberta, Canada, T3G 4R5;

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

Elena Sebastiao, a Canadian citizen residing at 204 Dalcastle Court NW, Calgary, Alberta, Canada, T3A2A7;

David Sullivan, a Canadian citizen residing at 534 – 28th Avenue NW, Calgary, Alberta, Canada, T2M 2K8; and

Yoonhee Kim, a Canadian citizen residing at #3207, 95 Burma Star Road S.W. Calgary, Alberta, Canada, T3E 8A9,

have invented subject matter described and claimed in an application for patent entitled:

"CATALYSTS FOR THE OXIDATIVE DEHYDROGENATION OF ALKANES"

filed in the _____ Office on _____, and assigned application number _____ ("the Invention");

NOW THEREFORE, in consideration of one dollar (\$1.00), the receipt and sufficiency of which is hereby acknowledged, Xiaoliang Gao, Marie Barnes, Vasily Simanzhenkov, Elena Sebastiao, David Sullivan, and Yoonhee Kim, hereby:

1. Sell, assign and transfer, to **NOVA Chemicals Corporation**, a New Brunswick corporation having a head office at 1000 - 7th Avenue SW, Calgary, Alberta, Canada, T2P 5L5, its successors and assigns, all of their right, title and interest in and to the Invention in and for Canada, and in and to any and all Canadian patent applications that may be filed therefor, and all Canadian patents that may be issued therefor, including any and all divisionals, reissues and extensions thereof, together with the right to claim convention priority to the above-mentioned patent application, if applicable, which right, title and interest NOVA Chemicals Corporation accepts, and the right to enforce, pursue, collect, retain in NOVA Chemicals Corporation's name or otherwise, damages, an accounting of profits, an injunction and any other remedies arising from any past, present, or future infringement of the Invention, patent application or issued patent in Canada, and any other rights assigned by this assignment;
2. 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 of their right, title and interest in and to the Invention in and for all countries of the world excluding Canada, and in and to any and all patent applications that may be filed therefor, and all patents that may be issued therefor, including any and all continuations, continuations-in-part, divisionals, reissues, and extensions thereof, in and for all countries of the world excluding Canada, together with the right to claim convention priority to the above-mentioned patent application for all patent applications and patents in and for all countries of the world excluding Canada, if applicable, which right, title and interest NOVA Chemicals (International) S.A. accepts, and the right to enforce, pursue, collect, retain in NOVA Chemicals (International) S.A.'s name or otherwise, damages, an accounting of profits, an injunction and any other remedies arising from any past, present, or future infringement of the Invention, patent application or issued patent in all countries of the world excluding Canada, and any other rights assigned by this assignment;
3. Agree that they will, when requested, without charge, sign all papers, take all oaths, make all declarations and do all acts which may be necessary, desirable or convenient for securing and maintaining patents or other forms of protection for the Invention in any and all

countries and for vesting title in **NOVA Chemicals Corporation** or **NOVA Chemicals (International) S.A.**, as the case may be, or their respective successors and assigns;

4. Authorize **NOVA Chemicals Corporation**, or **NOVA Chemicals (International) S.A.**, as the case may be, to insert into this assignment the filing date and application number of the above mentioned application, when known, together with any further or additional identification which may be necessary or desirable to effect recordation of this assignment in any country;
5. Confirm that this assignment shall be binding upon, and enure to the benefit of, the heirs, executors, administrators, successors and assigns of the parties hereto, respectively.
6. Agree that this assignment shall be governed by, construed in accordance with, and subject to, the laws of the province of Alberta, Canada.

SIGNED at the city of Calgary, Alberta, this 10th day of July, 2019.

Xiaoliang Gao
Xiaoliang Gao

Kim Pond
WITNESS

AFFIDAVIT OF EXECUTION

I, Kim Pond, 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 **Xiaoliang Gao** 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 Province)
of Alberta, this 11th day of)
July, 2019)


Kim Pond.

A Notary Public in and for the
Province of Alberta

Robert Hay, Lawyer

Robert Hay, Lawyer

SIGNED at the city of Calgary, Alberta, this 11th day of July, 2019.


 Marie Barnes


 WITNESS

AFFIDAVIT OF EXECUTION

I, Kim Pond, 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 Marie Barnes 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 Province)
 of Alberta, this 11th day of)
July, 2019)





A Notary Public in and for the
 Province of Alberta

Robert Hay, Lawyer

SIGNED at the city of Calgary, Alberta, this 10th day of July, 2019.


 Vasily Simanzhenkov


 WITNESS

AFFIDAVIT OF EXECUTION

I, Kim Pond, 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 Province)
 of Alberta, this 11th day of)
July, 2019)





A Notary Public in and for the
 Province of Alberta

Robert Hay, Lawyer

SIGNED at the city of Calgary, Alberta, this 10th day of July, 2019.

Elena Sebastiao
Elena Sebastiao

Kim Pond
WITNESS

AFFIDAVIT OF EXECUTION

I, Kim Pond, 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 **Elena Sebastiao** 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 Province)
of Alberta, this 11th day of)
July, 2019)

Kim Pond

A Notary Public in and for the
Province of Alberta

Robert Hay, Lawyer

SIGNED at the city of Calgary, Alberta, this 10th day of July, 2019.

David Sullivan
David Sullivan

Kim Pond
WITNESS

AFFIDAVIT OF EXECUTION

I, Kim Pond, 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 **David Sullivan** 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 Province)
of Alberta, this 11th day of)
July, 2019)

Kim Pond

A Notary Public in and for the
Province of Alberta

Robert Hay, Lawyer

SIGNED at the city of Calgary, Alberta, this 10th day of July, 2019.

[Signature]
Yoonhee Kim

[Signature]
WITNESS

AFFIDAVIT OF EXECUTION

I, Kim Pond, 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 Yoonhee Kim 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 Province)
of Alberta, this 11th day of)
July, 2019)

[Signature]

A Notary Public in and for the
Province of Alberta

Robert Hay, Lawyer

SIGNED at the city of Calgary, Alberta, this 11th day of July, 2019.

[Signature]
NOVA Chemicals Corporation
By: Umesh Karnik
I have authority to bind the corporation

[Signature]
Kim Pond
WITNESS

SIGNED at the city of Calgary, Alberta, this 11th day of July, 2019.

[Signature]
NOVA Chemicals (International) S.A.
By: Carolyn Hoff
I have authority to bind the corporation

[Signature]
Kim Pond
WITNESS