

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4464353

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
YVES LACOMBE	11/24/2015
ERIC CLAVELLE	11/23/2015
STEPHEN SALOMONS	11/23/2015
ANDREW HAWRYLUK	11/23/2015
STEPHEN JOHN BROWN	11/24/2015
MARION WALLS	12/11/2015
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	NOVA CHEMICALS (INTERNATIONAL) S.AL
<b>Street Address:</b>	AVENUE DE LA GARE 14
<b>City:</b>	FRIBOURG
<b>State/Country:</b>	SWITZERLAND
<b>Postal Code:</b>	1700
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	15537026
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(412)490-4323
<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>	
<b>Phone:</b>	412-490-4323
<b>Email:</b>	Karen.Lockhart@novachem.com
<b>Correspondent Name:</b>	NOVA CHEMICALS INC./KAREN S. LOCKHART
<b>Address Line 1:</b>	1555 CORAOPOLIS HEIGHTS ROAD
<b>Address Line 4:</b>	MOON TOWNSHIP, PENNSYLVANIA 15108
<b>ATTORNEY DOCKET NUMBER:</b>	2013 029 PCT/USA-NONP
<b>NAME OF SUBMITTER:</b>	KAREN S.LOCKHART
<b>SIGNATURE:</b>	/karen s lockhart/
<b>DATE SIGNED:</b>	06/16/2017
<b>Total Attachments: 4</b>	

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### WORLD WIDE ASSIGNMENT

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

**LACOMBE, Yves**, a Canadian citizen residing at 228 Hidden Spring Green N.W., Calgary, Alberta, Canada, T3A 5N4;

**CLAVELLE, Eric**, a Canadian citizen residing at 5043 Nolan Rd. N.W., Calgary, Alberta, Canada, T2K 2N9;

**SALOMONS, Stephen**, a Canadian citizen residing at 43 Cranridge Crescent S.E., Calgary, Alberta, Canada, T3M 0J2;

**HAWRYLUK, Andrew**, a Canadian citizen residing at 35 Beddington Way N.E., Calgary, Alberta, Canada T3E 1M8;

**BROWN, Stephen John**, a Canadian citizen residing at 59 Cranbrook Crescent S.E., Calgary, Alberta, Canada, T3M 2C3; and

**WALLS, Marion**, a Canadian citizen residing at 4212 43A Ave, Red Deer, Alberta, Canada, T4N 3G7,

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:

#### **"Optimized Agitator System for Production of Polyolefin"**

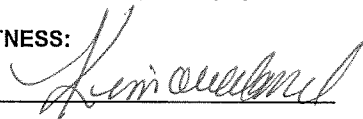
in Canada and in all other countries of the world.

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 Calgary, in the Province of Alberta, this 24<sup>th</sup> day of November, 2015.

WITNESS:



  
Yves Lacombe

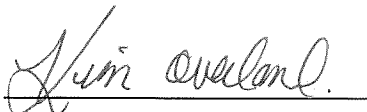
#### AFFIDAVIT OF EXECUTION

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 **Yves Lacombe** 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 24<sup>th</sup> day of )  
November, 2015 )



  
A Notary Public in and for the  
Province of Alberta

CAROLYN ANN HOFF  
My Appointment Expires December 31, 2017

SIGNED in the City of Calgary, in the Province of Alberta, this 23<sup>RD</sup> day of November, 2015.

WITNESS:

[Signature]

[Signature]  
Eric Clavelle

**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 **Eric Clavelle** 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 24<sup>th</sup> day of )  
November, 2015 )

[Signature]

[Signature]  
A Notary Public in and for the  
Province of Alberta

CAROLYN ANN HOFF  
My Appointment Expires December 31, 2017

SIGNED in the City of Calgary, in the Province of Alberta, this 23<sup>RD</sup> day of November, 2015.

WITNESS:

[Signature]

[Signature]  
Stephen Salomons

**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 **Stephen Salomons** 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 24<sup>th</sup> day of )  
November, 2015 )

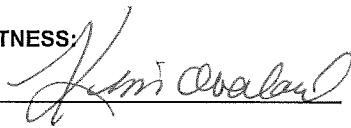
[Signature]

[Signature]  
A Notary Public in and for the  
Province of Alberta

CAROLYN ANN HOFF  
My Appointment Expires December 31, 2017

SIGNED in the City of Calgary, in the Province of Alberta, this 23<sup>rd</sup> day of November, 2015.

WITNESS:



  
Andrew Hawryluk

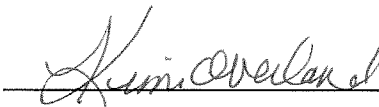
**AFFIDAVIT OF EXECUTION**

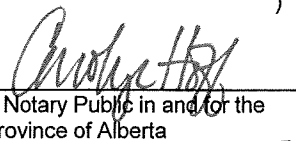
I, Kim Overland, whose full post office address is c/o NOVA Chemicals Corporation, 2928 - 16 Street NE, Calgary, Alberta, Canada, T2E 7K7

**MAKE OATH AND SAY:**

That I was personally present and did see **Andrew Hawryluk** 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 24<sup>th</sup> day of )  
November, 2015 )

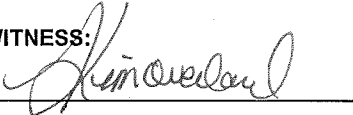


  
A Notary Public in and for the  
Province of Alberta

CAROLYN ANN HOFF  
My Appointment Expires December 31, 2017

SIGNED in the City of Calgary, in the Province of Alberta, this 24<sup>th</sup> day of November, 2015.

WITNESS:



  
Stephen John Brown

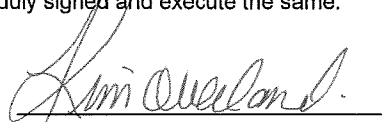
**AFFIDAVIT OF EXECUTION**

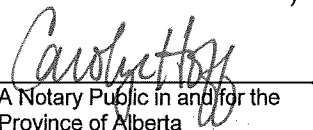
I, Kim Overland, whose full post office address is c/o NOVA Chemicals Corporation, 2928 - 16 Street NE, Calgary, Alberta, Canada, T2E 7K7

**MAKE OATH AND SAY:**

That I was personally present and did see **Stephen John Brown** 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 24<sup>th</sup> day of )  
November, 2015 )



  
A Notary Public in and for the  
Province of Alberta

CAROLYN ANN HOFF  
My Appointment Expires December 31, 2017

SIGNED in the City of Calgary, in the Province of Alberta, this 11 day of December, 2015.

WITNESS:

Carolyn Hoff

M Walls  
Marion Walls

**AFFIDAVIT OF EXECUTION**

I, Carolyn Hoff, whose full post office address is c/o 2928-16<sup>th</sup>  
Street NE, Calgary, AB, Canada, T2E 7K7

**MAKE OATH AND SAY:**

That I was personally present and did see **Marion Walls** 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 14<sup>th</sup> day of )  
December, 2015 )

Carolyn Hoff

Robert Hay

A Notary Public in and for the  
Province of Alberta

Robert Hay, Lawyer