504721880 01/10/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4768603

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
NIOUSHA KAZEMI	11/09/2017
MONIKA KLECZEK	11/06/2017
VINOD KONAGANTI	11/06/2017
BRONWYN GILLON	11/08/2017
SHIVENDRA GOYAL	11/07/2017
FAZLE SIBTAIN	11/06/2017
SEPIDEH KASIRI	11/06/2017
STEPHEN SALOMONS	11/06/2017
KENNETH TAYLOR	11/30/2017
MEHDI KESHTKAR	11/08/2017

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:	15805287

CORRESPONDENCE DATA

Fax Number: (412)490-4359

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.

Phone: 412-490-4323

Email: Karen.Lockhart@novachem.com

NOVA CHEMICALS INC./KAREN S. LOCKHART Correspondent Name:

Address Line 1: 1555 CORAOPOLIS HEIGHTS ROAD

Address Line 4: MOON TOWNSHIP, PENNSYLVANIA 15108

ATTORNEY DOCKET NUMBER: 2017 065 USA-NONP

> **PATENT** REEL: 044580 FRAME: 0921

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NAME OF SUBMITTER:	KAREN S. LOCKHART
SIGNATURE:	/karen s lockhart/
DATE SIGNED:	01/10/2018
Total Attachments: 6	•
source=2017065USAssignment#p	ge1.tif
source=2017065USAssignment#p	ge2.tif
source=2017065USAssignment#p	ge3.tif
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PATENT REEL: 044580 FRAME: 0922

WORLD WIDE ASSIGNMENT

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

KAZEMI, Niousha, an Iranian citizen residing at 239 24 Ave N.W., Calgary, Alberta, Canada, T2M 1X2;

KLECZEK, Monika, a Canadian citizen residing at Unit 506, 235 9A St N.W., Calgary, Alberta, Canada, T2N 4H7;

KONAGANTI, Vinod, an Indian citizen residing at 1701-5300 Rundlehorn Drive N.E., Calgary, Alberta, Canada, T1Y 3V5;

GILLON, Bronwyn, a Canadian citizen residing at 1, 1918 33 Street S.W., Calgary, Alberta, Canada, T3E 2S5;

GOYAL, Shivendra, a Canadian citizen residing at 128 Hamptons Terrace N.W., Calgary, Alberta, Canada, T3A 5X4;

SIBTAIN, Fazle, a Canadian citizen residing at 24 MacEwan Park Manor N.W., Calgary, Alberta, Canada, T3K 4G6;

KASIRI, Sepideh, an Iranian citizen residing at 323 Sienna Heights Hill S.W., Calgary, Alberta, Canada, T3H 3T5;

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

TAYLOR, Kenneth, a Canadian citizen residing at 1901 Craig Court, Sarnia, Ontario, Canada, N0N 1C0; and

KESHTKAR, Mehdi, a Canadian citizen, residing at 2810 – 18 Street N.W., Calgary, Alberta, Canada, T2M 3V1.

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:

"Manufacturing Ethylene Interpolymer Products At Higher Production Rate"

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.

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REEL: 044580 FRAME: 0923

SIGNED in the City of Calgary, in the Pro	ovince of Alberta, this American day of November, 2017.
WITNESS: Limbord	Niousha Kazemi
I, Aim Pond 2928 - 16 Street NE, Calgary, Alberta, G	AFFIDAVIT OF EXECUTION whose full post office address is c/o NOVA Chemicals Corporation, Canada, T2E 7K7
MAKE OATH AND SAY:	
That I was personally present and did s named in this assignment duly sign and	see Niousha Kazemi who is personally known to me to be the person dexecute the same.
SWORN before me at the City of Calgary, in the Province of Alberta, this 13 ¹¹ day of 2017 A Notary Public in and for the	} dimford
Province of Alberta	
Robert Hay, Lawyer	
SIGNED in the City of Calgary, in the Pro	day of Nosembor, 2017. Monika Kleczek
I, Him Pond 2928 - 16 Street NE, Calgary, Alberta,	AFFIDAVIT OF EXECUTION whose full post office address is c/o NOVA Chemicals Corporation, Canada, T2E 7K7
MAKE OATH AND SAY:	
That I was personally present and did s named in this assignment duly sign and	see Monika Kleczek who is personally known to me to be the person d execute the same.
SWORN before me at the City of Calgary, in the Province of Alberta, this 13th day of 2017	} Lum fond
A Notary Public in and for the Province of Alberta Robert Hay, Lawyer	

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PATENT REEL: 044580 FRAME: 0924

SIGNED in the City of Calgary, in the Prov	vince of Alberta, this day of <u>\</u> 00, <u>@</u> 0, 2017.
WITNESS: Amily	Vinod Konaganti
1/. ()	AFFIDAVIT OF EXECUTION whose full post office address is c/o NOVA Chemicals Corporation, anada, T2E 7K7
MAKE OATH AND SAY:	
That I was personally present and did se named in this assignment duly sign and o	e Vinod Konaganti who is personally known to me to be the person execute the same.
SWORN before me at the City of Calgary, in the Province of Alberta, this 13th day of 2017	} _ Kim bod
A Notary Public in and for the Province of Alberta	
Robert Hay, Lawyer	
SIGNED in the City of Calgary, in the Prov WITNESS:	vince of Alberta, this grand day of November, 2017. Bronwyn Gillon
2051	AFFIDAVIT OF EXECUTION whose full post office address is c/o NOVA Chemicals Corporation,
2928 - 16 Street NE, Calgary, Alberta, Ca	anada, IZE/K/
	e Bronwyn Gillon who is personally known to me to be the person execute the same.
SWORN before me at the City of Caigary, in the Province of Alberta, this 13th day of 2017 Alberta Public in and for the Province of Alberta	P. Dott Clil

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Robert Hay, Lawyer

	Jan han
SIGNED in the City of Calgary, in the Pro	ovince of Alberta, this / day of November 2017.
WITNESS: Jum Port	Shivendra Goyal
. Kim Pond	AFFIDAVIT OF EXECUTION
- 16 Street NE, Calgary, Alberta, Canada	whose full post office address is c/o NOVA Chemicals Corporation, 2928 a, T2E 7K7
MAKE OATH AND SAY:	
That I was personally present and did s named in the attached assignment duly	see Shivendra Goyal who is personally known to me to be the person vign and execute the same.
SWORN before me at the City of Calgary, in the Province of Alberta, this 13th day of November, 2017	Hum fond.
A Notary Public in and for the Province of Alberta	
Robert Hay, Lawyer	
SIGNED in the City of Calgary, in the Pro	ovince of Alberta, this <u>b</u> day of <u>November</u> , 2017.
<i>"</i> 1	Fazle Sibtain
I, Him Pond - 16 Street NE, Calgary, Alberta, Canada	whose full post office address is c/o NOVA Chemicals Corporation, 2928 a, T2E 7K7
MAKE OATH AND SAY:	
That I was personally present and did s named in the attached assignment duly	see Fazle Sibtain who is personally known to me to be the person signed and execute the same.
SWORN before me at the City of Calgary, in the Province of Alberta, this /3 th day of //ovemby, 2017	dim Pond
A Notary Public in and for the Province of Alberta Robert Hay, Lawyer	

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	6 Character Contract
SIGNED in the City of Calgary, in the Province of Alberta, thi	se day of 10000 mpb, 2017.
witness: Jumby .	Sepideh Kasiri
I,, whose full post office 2928 - 16 Street NE, Calgary, Alberta, Canada, T2E 7K7	XECUTION ce address is c/o NOVA Chemicals Corporation,
MAKE OATH AND SAY:	
That I was personally present and did see Sepideh Kasiri named in this assignment duly sign and execute the same.	who is personally known to me to be the person
SWORN before me at the City of Calgary, in the Province of Alberta, this St. day of Work, 2017 A Notary Public in and for the Province of Alberta	Hum fond.
Robert Hay, Lawyer	
SIGNED in the City of Calgary, in the Province of Alberta, this WITNESS:	s b day of November, 2017. — Jan Stephen Salomons
SIGNED in the City of Calgary, in the Province of Alberta, this witness: Affidavit of E	Stephen Salomons
SIGNED in the City of Calgary, in the Province of Alberta, this witness: AFFIDAVIT OF E Whose full post offi	Stephen Salomons XECUTION
SIGNED in the City of Calgary, in the Province of Alberta, this witness: AFFIDAVIT OF E 1,, whose full post office 1928 - 16 Street NE, Calgary, Alberta, Canada, T2E 7K7	Stephen Salomons XECUTION ce address is c/o NOVA Chemicals Corporation, nons who is personally known to me to be the

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REEL: 044580 FRAME: 0927

SIGNED in the City of Sarnia, in the Province of Ontario, this 30 day of, 2017.
WITNESS:
Kun Tunsh Kenneth daylor
AFFIDAVIT OF EXECUTION 14
FILED VXW DWATER whose full nest office address 10 St MODET AND RD
SARNIA DN N756LD,
MAKE OATH AND SAY:
That I was personally present and did see Kenneth Taylor who is personally known to me to be the person
named in the attached assignment duly sign and execute the same.
SWORN before me at the City of Sarnia, in the Province)
of Ontario, this 13th day of) / / / / / / / / / / / / / / / / / /
Juddy)
A Notáry Public in and for the Province of Ontario
SIGNED in the City of Calgary, in the Province of Alberta, this <u>&</u> day of <u>Na V</u> , 2017.
WITNESS:
WITNESS:
WITNESS: Mehdi Keshtkar
WITNESS: AFFIDAVIT OF EXECUTION
WITNESS: Mehdi Keshtkar
WITNESS: AFFIDAVIT OF EXECUTION
WITNESS: Mendi Keshtkar AFFIDAVIT OF EXECUTION I, whose full post office address is c/o NOVA Chemicals Corporation, 2928 - 16 Street NE, Calgary, Alberta, Canada, T2E 7K7
WITNESS: Mendi Keshtkar AFFIDAVIT OF EXECUTION I,
AFFIDAVIT OF EXECUTION I,
WITNESS: Mendi Keshtkar AFFIDAVIT OF EXECUTION I,
Mendi Keshtkar AFFIDAVIT OF EXECUTION I, 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 Mehdi Keshtkar 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 finday of horizontal, 2017
AFFIDAVIT OF EXECUTION I,

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RECORDED: 01/10/2018