PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT5932568

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SUNCOR ENERGY OIL SANDS LIMITED PARTNERSHIP	01/09/2020

RECEIVING PARTY DATA

Name:	SUNCOR ENERGY INC.
Street Address:	SUNCOR ENERGY CENTER, WEST TOWER, PO BOX 2844, 150-6TH AVENUE SW
City:	CALGARY
State/Country:	CANADA
Postal Code:	T2P 3E3

PROPERTY NUMBERS Total: 11

Property Type	Number
Patent Number:	9481835
Patent Number:	9890337
Patent Number:	9150794
Patent Number:	9200211
Patent Number:	9944864
Patent Number:	9976093
Patent Number:	10421917
Application Number:	16006651
Application Number:	15596816
Application Number:	16247807
Patent Number:	10280373

CORRESPONDENCE DATA

Fax Number:

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.

Email: clermont-letendre@robic.com
Correspondent Name: ROBIC
Address Line 1: 630 RENE-LEVESQUE BOULEVARD WEST, 20TH FLOOR
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ATTORNEY DOCKET NUMBER:	015364-0004
NAME OF SUBMITTER:	SABRINA CLERMONT-LETENDRE
SIGNATURE:	/sabrinaclermont-letendre/
DATE SIGNED:	01/28/2020

Total Attachments: 7
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PATENT ASSIGNMENT

The undersigned:

Suncor Energy Oil Sands Limited Partnership (the **"Assignor"**)

whose full postal address is:

Suncor Energy Centre, West Tower
PO Box 2844, 150 – 6th Ave SW
Calgary, Alberta, T2P 3E3
Canada

in consideration of good and valuable consideration, the receipt and sufficiency of which is acknowledged, does hereby sell, assign, transfer and confirm such sale, assignment or transfer to:

Suncor Energy Inc. (the **"Assignee"**)

whose full postal address is:

Suncor Energy Centre, West Tower
PO Box 2844, 150 – 6th Ave SW
Calgary, Alberta, T2P 3E3
Canada

all of the Assignor's right, title and interest in and to the patents and patent applications set out in Schedule "A" attached hereto (the "Patents"), and any and all corresponding right, title and interest in and to any patent which may issue therefrom of the inventions described therein, including any and all divisions, reissues, continuations, continuations-in-part, registrations, additions, and/or extensions thereof or thereto, including the exclusive right to claim any priority rights to which such patent and patent applications are entitled under international conventions, treaties, or otherwise; the same to be held and enjoyed by the said Assignee to the full end of the term or terms for which Letters Patent are or may be granted, reissued, or extended, as fully and entirely as the same would have been held and enjoyed by the Assignor had this assignment and sale not been made.

I, the Assignor, agree to execute, upon request and without further consideration, any and all further papers which may be necessary or desirable to enable the Assignee, its successors and assigns, to file and prosecute the Patents.

I, the Assignor, further agree to execute, upon request and without further consideration, any and all further papers which may be necessary or desirable to vest or perfect the title of said Assignee, its successors and assigns, in and to Patents.

I, the Assignor, further agree to execute, upon request and without further consideration, such further assignments, documents, assurances, applications and other instruments as may be required by said Assignee, its successors, assigns or legal representatives, to obtain any and all Letters Patent to said Patents, including any and all divisions, reissues, continuations, continuations-in-part, registrations, additions, and/or extensions thereof or thereto, and vest the same in said Assignee, its successors, assigns or legal representatives.

IN WITNESS WHEREOF the Assignor has caused this assignment to be duly executed.

SIGNED at Calgary (City) Alberta (Province) Canada (Country)

This 9 (day) day of January (month) 2020 (year)

WITNESS

Signature:

Name: Geoff Rocke

Suncor Energy Oil Sands Limited Partnership

Signature:

Name: C. L. Ellis

Title: Gm Strategic Technology

READ AND APPROVED

SIGNED at Calgary (City) Alberta (Province) Canada (Country)

This 9 (day) day of January (month) 2020 (year)

By: **SUNCOR ENERGY INC.**

Signature: [signature]

Name: G. L. Soria

Title: Gm Strategic Technology

Schedule "A"
to a Patent Assignment from MEG Energy Corp. to Suncor Energy Oil Sands Limited Partnership
dated January 6, 2020

	Status	Title	Patent/Publication/ Application Number	Jurisdiction
Patents Granted				
1		Optimal Asphaltene Conversion and Removal for Heavy Hydrocarbons	9,481,835	USA
2		Optimal Asphaltene Conversion and Removal for Heavy Hydrocarbons	2,732,919	Canada
3		Optimal Asphaltene Conversion and Removal for Heavy Hydrocarbons	9,890,337	USA
4		Solvent Deasphalting with Cyclonic Separation	9,150,794	USA
5		Solvent Deasphalting with Cyclonic Separation	11,201,401,274	Singapore
6		Solvent Deasphalting with Cyclonic Separation	ZL 201180075179.1	China
7		Solvent Deasphalting with Cyclonic Separation	2,754,376	Canada
8		Solvent Deasphalting with Cyclonic Separation	355,399	Mexico
9		Solvent Deasphalting with Cyclonic Separation	315,137	India
10		Solvent Deasphalting with Cyclonic Separation	2,760,974	Europe
11		LOW COMPLEXITY, HIGH YIELD CONVERSION OF HEAVY HYDROCARBONS	2,764,676	Canada
12		LOW COMPLEXITY, HIGH YIELD CONVERSION OF HEAVY HYDROCARBONS	2,012,366,724	Australia
13		LOW COMPLEXITY, HIGH YIELD CONVERSION OF HEAVY HYDROCARBONS	6,378,094	Japan
14		LOW COMPLEXITY, HIGH YIELD CONVERSION OF HEAVY HYDROCARBONS	9,200,211	USA
15		LOW COMPLEXITY, HIGH YIELD CONVERSION OF HEAVY HYDROCARBONS	9,944,864	USA
16		LOW COMPLEXITY, HIGH YIELD CONVERSION OF HEAVY HYDROCARBONS	10-1930580	South Korea
17		Enhanced Method for Solvent Deasphalting of hydrocarbons	2,785,289	Canada
18		Improved Separation of Solid Asphaltenes from Heavy Liquid Hydrocarbons Using Novel Apparatus and Process ("IAS")	2,844,000	Canada
19		Improved Separation of Solid Asphaltenes from Heavy Liquid Hydrocarbons Using Novel Apparatus and Process ("IAS")	10-1921375	South Korea
20		Improved Separation of Solid Asphaltenes from Heavy Liquid Hydrocarbons Using Novel Apparatus and Process ("IAS")	ZL201480023755.1	China
21		Improved Separation of Solid Asphaltenes from Heavy Liquid Hydrocarbons Using Novel Apparatus and Process ("IAS")	9,976,093	USA
22		Improved Separation of Solid Asphaltenes from Heavy Liquid Hydrocarbons Using Novel Apparatus and Process ("IAS")	10,280,373	USA
23		Improved Separation of Solid Asphaltenes from Heavy Liquid Hydrocarbons Using Novel Apparatus and	11201506711V	Singapore

		Process ("IAS")		
24		Improved Separation of Solid Asphaltenes from Heavy Liquid Hydrocarbons Using Novel Apparatus and Process ("IAS")	2015-558317	Japan
25		Steamless Hydrocarbon Processing (Upgrading) Facility with Multiple and Integrated Use of Non-Condensable Gas for Hydrocarbon Processing	10,421,917	USA
26		Steamless Hydrocarbon Processing (Upgrading) Facility with Multiple and Integrated Use of Non-Condensable Gas for Hydrocarbon Processing	2,986,515	Canada
Patents Pending				
1		Improved Asphaltene Conversion, Separation, Removal and Transport Preparation for Heavy Hydrocarbons	3008103	Canada
2		Improved Asphaltene Conversion, Separation, Removal and Transport Preparation for Heavy Hydrocarbons	16/006,651	USA
3		Improved Asphaltene Conversion, Separation, Removal and Transport Preparation for Heavy Hydrocarbons	PCT/CA2018/050705	Patent Cooperation Treaty (International)
4		DIRECT OLEFIN REDUCTION OF THERMALLY CRACKED HYDROCARBON STREAMS	2,967,678	Canada
5		DIRECT OLEFIN REDUCTION OF THERMALLY CRACKED HYDROCARBON STREAMS	15/596,816	USA
6		DIRECT OLEFIN REDUCTION OF THERMALLY CRACKED HYDROCARBON STREAMS	PCT/CA2017/050592	Patent Cooperation Treaty (International)
7		COMBINED PROCESS TO PRODUCE BOTH A PIPELINEABLE CRUDE AND CARBON FIBER FROM HEAVY HYDROCARBON	3,030,277	Canada
8		COMBINED PROCESS TO PRODUCE BOTH A PIPELINEABLE CRUDE AND CARBON FIBER FROM HEAVY HYDROCARBON	16/247,807	USA
9		COMBINED PROCESS TO PRODUCE BOTH A PIPELINEABLE CRUDE AND CARBON FIBER FROM HEAVY HYDROCARBON	PCT/CA2019/050050	Patent Cooperation Treaty (International)
10		Improved Separation of Solid Asphaltenes from Heavy Liquid Hydrocarbons Using Novel Apparatus and Process ("IAS")	15/10997	Mexico
11		Improved Separation of Solid Asphaltenes from Heavy Liquid Hydrocarbons Using Novel Apparatus and Process ("IAS")	14,753,636	Europe
12		Improved Separation of Solid Asphaltenes from Heavy Liquid Hydrocarbons Using Novel Apparatus and Process ("IAS")	2511/MUMNP/2015	India
13		Steamless Hydrocarbon Processing (Upgrading) Facility with Multiple and Integrated Use of Non-Condensable Gas for Hydrocarbon Processing	PCT/CA2017/051398	Patent Cooperation Treaty

				(International)