

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT4423423

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	PETRO-CANADA	07/30/2009
RECEIVING PARTY DATA		
Name:	SUNCOR ENERGY INC.	
Street Address:	PO BOX 2844 150-6TH AVE SW	
City:	CALGARY, ALBERTA	
State/Country:	CANADA	
Postal Code:	T2P 3E3	
PROPERTY NUMBERS Total: 1		
Property Type	Number	
Application Number:	15272147	
CORRESPONDENCE DATA		
Fax Number:	(877)769-7945	
<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:	+1-212-641-2270	
Email:	enb@fr.com	
Correspondent Name:	WILLIAM T. SPENCER	
Address Line 1:	FISH & RICHARDSON P.C.	
Address Line 2:	P.O.BOX 1022	
Address Line 4:	MINNEAPOLIS, MINNESOTA 55440-1022	
ATTORNEY DOCKET NUMBER:	18694-0011004	
NAME OF SUBMITTER:	ELIZABETH A. BAUER	
SIGNATURE:	/Elizabeth A. Bauer/	
DATE SIGNED:	05/19/2017	
Total Attachments: 7		
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ASSIGNMENT AND TRANSFER OF ENTIRE RIGHT

THIS PATENT ASSIGNMENT (the "Assignment") is effective August 1, 2009 (the "Effective Date"), by and between:

PETRO-CANADA, a Canadian Corporation (the "Assignor")
at P.O. Box 2844, 150-6th Avenue S.W., Calgary, Alberta T2P 3E3
AND

SUNCOR ENERGY INC., a Canadian Corporation ("Amalco" and the "Assignee")
at P.O. Box 38, 112 - 4 Avenue S.W., Calgary, Alberta T2P 2V5

- A. The Assignor and Suncor Energy Inc. ("Suncor") a Canadian Corporation, entered into an arrangement agreement dated March 22, 2009 (the "Arrangement Agreement"). Pursuant to the terms of the Arrangement Agreement and the *Canada Business Corporations Act*, R.S.C. 1985, c. C-44, as amended, the Parties agreed that, at the Effective Date, the Assignor and Suncor would amalgamate and continue as Amalco.
- B. The Assignor is owner or co-owner of the patents and patent applications, designs and design patents set forth in Schedule A attached hereto (the "Patents"), and of any and all inventions disclosed in said Patents (the "Inventions"). The Assignor and Assignee are aware that some Patents and Inventions may have been omitted through inadvertence and thus the Patents and Inventions includes any other patents, patent applications, designs and design patents and inventions owned by the Assignor and which may not be expressly listed in Schedule A including family members of listed Patents and Inventions and other Patents and Inventions not otherwise or previously identified in Schedule A;
- C. As a result of the amalgamation, the entirety of the Assignor's right, title and interest in the Patents and Inventions shall be sold, transferred and assigned to the Amalco as Assignee.

NOW THEREFORE, for the consideration set forth in the Arrangement Agreement, and for other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the Parties agree as follows:

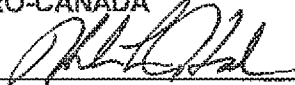
1. The Assignor does hereby sell, assign and transfer to Assignee the entire right, title and interest in, to and under:
- i. the Patents and all continuations, divisionals and related children thereof, all patents, registrations and other rights granted thereon in Canada or any other country and all reissues, re-examinations and extensions thereof;
 - ii. the Inventions and all patent applications describing or claiming the Inventions in Canada or any other country, including all applications filed pursuant to the Patent Cooperation Treaty, and including all rights of priority under the Paris Convention, and any and all patents, registrations and other rights granted thereon in Canada or any other country and all reissues, re-examinations and extensions thereof; and
 - iii. any other Patents or Inventions to which the Assignor has a right, title and interest, and which have not already been identified in Schedule A, so that the Assignee receives the same entirety of the rights and privileges enjoyed by the Assignor, or which would have been enjoyed by the Assignor had the Assignor not hereby assigned.

ASSIGNMENT AND TRANSFER OF ENTIRE RIGHT

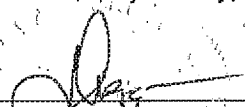
2. The Assignor shall do such acts and execute such papers, as from time to time may be necessary or useful to secure for said Assignee the full benefits of said Patents or Inventions, or otherwise to carry into full force and effect the text and intent of this assignment.

Executed by the Assignor in the City of Calgary, Alberta, CANADA on the 30th of July, 2009:

PETRO-CANADA

By: 
Name: Hugh L. Hooker
Title: Chief Compliance Officer
Corporate Secretary
Associate General Counsel

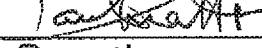
DECLARED BEFORE ME at the City)
of Calgary, in the Province of Alberta,)
this 30th day of July, 2009.)


Jamie L. Gagner
A Notary Public in and for the
Provinces of Alberta

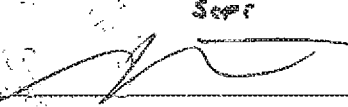

HUGH L. HOOKER

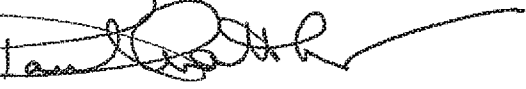
Executed by the Amalco and Assignee in the City of Calgary, Alberta CANADA on 4 of August, 2009:
SEPT.

SUNCOR ENERGY INC.

By: 
Name: PAUL MATTHEWS
Title: Director, Legal Affairs, IP
Suncor Energy Services Inc. on behalf of
Suncor Energy Inc.

DECLARED BEFORE ME at the City)
of Calgary, in the Province of Alberta,)
this 4 day of August, 2009.)
SEPT


Shawn P. Poirier
A Notary Public in and for the
Province of Alberta
1400, 350 - 7th Avenue SW
Calgary, Alberta T2P 3N9


PAUL MATTHEWS

SCHEDULE A - ATTACHED HERETO

ASSIGNMENT AND TRANSFER OF ENTIRE RIGHT

SCHEDULE A – PATENTS AND INVENTIONS

Country	Patent/Publication No.	Title
AT - AUSTRIA		
AT	AT330990T	Weissoel schmiermittel bei der extrusion
AU - AUSTRALIA		
AU	AU2001280838B2	White oil extrusion lubricant
AU	AU2002240350B2	Emulsifiers for highly saturated hydroisomerized fluids and methods for minimizing pest infestation in agriculture
AU	AU2007308682A1	Herbicidal composition with increased herbicidal efficacy
BR - BRAZIL		
BR	BR200112767A	White oil extrusion lubricant
BR	BR203937A	Metodo e aparelho para estimular uma forma o furo abaixo
BR	BR9612270A	Craqueamento hidráulico de hidrocarbonetos pesados com controle de aromáticos polares.
BR	BR9708193A	Hydrotreating of heavy hydrocarbon oils with control of particle size of particulate additives
CA - CANADA		
CA	CA2000984C	Mixer circuit for oil sand
CA	CA2015784C	Low temperature version of the hot water extraction process for oil sand
CA	CA2029795C	Pipeline conditioning process for mined oil-sand
CA	CA2043469C	Method for producing superior quality paving asphalt and product prepared therefrom
CA	CA2093934C	In situ primary froth quality measurements
CA	CA2098622A1	Process for reducing sludge accumulation in the hot water extraction process for oil sands
CA	CA2104526C	Oil sand extraction process with in-line middlings aeration and recycle
CA	CA2128481C	Well test imaging
CA	CA2143396A1	Increasing settling rate of fine solids in oil sand tailings
CA	CA2149737C	Solvent process for bitumen separation from oil sands froth
CA	CA2159857C	Hydrocarbon processing apparatus and method
CA	CA2183113A1	Well test imaging
CA	CA2195604A1	Slurrying oil sand for hydrotransport in a pipeline
CA	CA2217300A1	Solvent process for bitumen separation from oil sands froth
CA	CA2217623A1	Cold dense slurrying process for extracting bitumen from oil sand
CA	CA2224815C	Nozzle for atomizing liquid in two phase flow
CA	CA2227667C	Agitated slurry pump box for oil sand hydrotransport
CA	CA2240376C	Hydrocracking of heavy hydrocarbon oils with conversion facilitated by control of polar aromatics
CA	CA2246841C	Cycloseparator for removal of coarse solids from conditioned oil sand slurries
CA	CA2248342C	Hydrotreating of heavy hydrocarbon oils with control of particle size of particulate additives

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Country	Patent/Publication No.	Title
CA	CA2254048C	Process for pumping bitumen froth through a pipeline
CA	CA2263858C	Mechanical deaeration of bituminous froth
CA	CA2269710C	Dual pump gravity separation system
CA	CA2272035C	Process for recovery of hydrocarbon diluent from tailings
CA	CA2272045C	Method for recovery of hydrocarbon diluent from tailings
CA	CA2350001C	Staged settling process for removing water and solids from oil sand extraction froth
CA	CA2350180C	Process for reducing sulphur emissions from a fluidized bed coke burner
CA	CA2368788A1	Hydrocracking of heavy hydrocarbon oils with improved gas and liquid distribution
CA	CA2404798C	Nozzle/mixer assembly
CA	CA2405391C	Method for acid stimulating a subterranean well formation for improving hydrocarbon production
CA	CA2416268A1	White oil extrusion lubricant
CA	CA2420034C	Jet pump system for forming an aqueous oil sand slurry
CA	CA2434848C	Technique for emulsifying highly saturated hydroisomerized fluids
CA	CA2445645C	Apparatus and process for coalescing bitumen in an oil sand slurry
CA	CA2453697C	At the mine site oil sands processing
CA	CA2455487C	Gas lift apparatus for a well
CA	CA2461237C	Utilizing heat at a steam assisted gravity drainage oil recovery operation
CA	CA2480122A1	Compact slurry preparation system for oil sand
CA	CA2498073A1	Lightweight wear-resistant weld overlay
CA	CA2506398C	Improved low energy process for extraction of bitumen from oil sand
CA	CA2507482A1	Spray oil and method of use thereof for controlling turfgrass pests
CA	CA2520046A1	Process for reducing the level of sulfur compounds from liquid hydrocarbon streams
CA	CA2520821A1	Relocatable oil sand slurry preparation system
CA	CA2550623A1	Relocatable countercurrent decantation system
CA	CA2591437A1	Heating system for outdoor conveyors in a carwash
CA	CA2600740A1	Discharge pressure actuated pump
CA	CA2605092A1	Herbicidal composition with increased herbicidal efficacy
CN - CHINA		
CN	CN1042174A	Hydrocracking of heavy oil in presence of ultrafine iron sulphate
CN	CN1071370C	Hydrocracking of heavy hydrocarbons with control of polar aromatics
CN	CN1077591C	Hydrotreating of heavy hydrocarbon oils with control of particle size particulate additives
CN	CN1280521C	Device and method for acid exciting of underwell structure layer
DE - GERMANY		
DE	DE60120992T2	Weissoel schmiermittel bei der extrusion
DE	DE60227224D1	Stimulierung durch saurebehandlung mit schaumischung im

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Country	Patent/Publication No.	Title
		bohrloch
DE	DE69106934T2	Paving asphalt cement and its production.
DE	DE69609355T2	Hydrocracken von schweren kohlenwasserstoffoelen mit kontrolle von polare aromaten
DE	DE69701088T2	Hydrotreating of heavy hydrocarbon oils with control of particle size of particulate additives
DK - DENMARK		
DK	DK1298281T3	Stimulering ved syrebehandling med en skumblanding i borehullet
DK	DK1309652T3	White oil extrusion lubricant
EP - EUROPEAN PATENT		
EP	EP0888420A1	Hydrotreating of heavy hydrocarbon oils with control of particle size of particulate additives
EP	EP0888420B1	Hydrotreating of heavy hydrocarbon oils with control of particle size of particulate additives
EP	EP0912658A1	Hydrocracking of heavy hydrocarbons with control of polar aromatics
EP	EP0912658B1	Hydrocracking of heavy hydrocarbons with control of polar aromatics
EP	EP1298281A1	Acid stimulating with downhole foam mixing
EP	EP1298281B1	Acid stimulating with downhole foam mixing
EP	EP1309652B1	White oil extrusion lubricant
ES - SPAIN		
ES	ES2144847T3	Hydrotreating of heavy hydrocarbon oils with control of particle size of particulate additives
ES	ES2149512T3	Hydrocracking of heavy hydrocarbon oils with conversion facilitated by recycle of both heavy gas oil and pitch
ES	ES2267802T3	White oil extrusion lubricant
GB - UNITED KINGDOM		
GB	GB2281971B	Well test imaging
JP - JAPAN		
JP	JP02187495A	Hydrocracking of heavy oil
JP	JP2004505150T	White oil extrusion lubricant
JP	JP2004532189T	Emulsifiers for highly saturated hydroisomerized fluids and methods for minimizing pest infestation in agriculture
JP	JP4234495A	Lubricating oil composition containing new combination of stabilizers
MX - MEXICO		
MX	MXPA02009368A	Method for acid stimulating a subterranean well formation for improving hydrocarbon production.
MX	MXPA03000847A	White oil extrusion lubricant
NO - NORWAY		
NO	NO20024284D0	Acid stimulating with downhole foam mixing
NO	NO308683B1	Well test imaging
NO	NO943060A	Well test imaging

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Country	Patent/Publication No.	Title
NO	NO943060D0	Well test imaging
PT - PORTUGAL		
PT	PT1309652E	Lubrificante de oleo branco para extrusao
TR - TURKEY		
TR	TR9801138T2	Hydrocracking of heavy hydrocarbon oils with conversion facilitated by recycle of both heavy gas oil and pitch
TR	TR9801830T2	Partikuellue katkı maddelerinin partikuel bueyueklueguenuen kontrolue yoluyla agir hidrokarbon yaglarinin su ile islemden gecirilmesi.
US - UNITED STATES OF AMERICA		
US	US2004165960A1	Jet pump system for forming an aqueous oil sand slurry
US	US2005261379A1	Spray oil and method of use therefor for controlling turfgrass pests
US	US2006185773A1	Lightweight wear-resistant weld overlay
US	US2007068769A1	Relocatable oil sand slurry preparation system
US	US2007289911A1	Relocatable countercurrent decantation system
US	US2008063544A1	Discharge pressure actuated pump
US	US2008080990A1	Discharge pressure actuated pump
US	US2008085832A1	Herbicidal composition with increased herbicidal efficacy
US	US2008121254A1	Heating system for outdoor conveyors in a carwash
US	US2009008297A1	Compact slurry preparation system for oil sand
US	US5284509A	Method for producing superior quality paving asphalt and product prepared therefrom
US	US5548563A	Well test imaging
US	US5624642A	Hydrocarbon processing apparatus
US	US5695555A	Method for the production of improved paving asphalt and product prepared therefrom
US	US5755955A	Hydrocracking of heavy hydrocarbon oils with conversion facilitated by control of polar aromatics
US	US5787050A	Well test imaging
US	US5972202A	Hydrotreating of heavy hydrocarbon oils with control of particle size of particulate additives
US	US6003789A	Nozzle for atomizing liquid in two phase flow
US	US6004453A	Hydrocracking of heavy hydrocarbon oils with conversion facilitated by recycle of both heavy gas oil and pitch
US	US6196312B1	Dual pump gravity separation system
US	US6358403B1	Process for recovery of hydrocarbon from tailings
US	US6358404B1	Method for recovery of hydrocarbon diluent from tailing
US	US6391190B1	Mechanical deaeration of bituminous froth
US	US6410488B1	Drilling fluid
US	US6515031B2	Technique for emulsifying highly saturated hydroisomerized fluids
US	US6517706B1	Hydrocracking of heavy hydrocarbon oils with improved gas and liquid distribution
US	US6663931B2	White oil extrusion lubricant
US	US6673360B2	Technique for emulsifying highly saturated hydroisomerized fluids

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Country	Patent/Publication No.	Title
US	US6719054	Method for acid stimulating a subterranean well formation for improving hydrocarbon production
US	US6719054B2	Method for acid stimulating a subterranean well formation for Improving hydrocarbon production
US	US6790386B2	Dielectric fluid
US	US7025874B2	Nozzle/mixer assembly
US	US7048045B2	Gas lift apparatus for a well
US	US7431830B2	Compact slurry preparation system for oil sand
US	US7481318B2	Apparatus and process for coalescing bitumen in an oil sand slurry
US	USD382070S1	Fuel pump station
US	USD391646S1	Service station canopy
US	USD398850S1	Ridge design for a bottle
US	USD399750S1	Combined bottle and cap
US	USD402771S1	Service station canopy
US	USD417917S1	Service station canopy
ZA – SOUTH AFRICA		
ZA	ZA200300720A	White oil extrusion lubricant.