

PATENT ASSIGNMENT

Electronic Version v1.1
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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
John O'Brien, Executor for Thomas B. O'Brien	01/27/2013
RECEIVING PARTY DATA	
Name:	Shale and Sands Oil Recovery LLC
Street Address:	3501B N Ponce de Leon Blvd S. 388
City:	St. Augustine
State/Country:	FLORIDA
Postal Code:	32084
PROPERTY NUMBERS Total: 5	
Property Type	Number
Patent Number:	7931080
Patent Number:	7980304
Patent Number:	8186430
Patent Number:	8377165
Application Number:	13344371
CORRESPONDENCE DATA	
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<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
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Correspondent Name:	Mark S. Leonardo
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Address Line 2:	Brown Rudnick LLP
Address Line 4:	Boston, MASSACHUSETTS 02111
ATTORNEY DOCKET NUMBER:	25785/1
NAME OF SUBMITTER:	Mark S. Leonardo

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Total Attachments: 5

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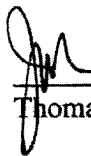
ASSIGNMENT AND AGREEMENT

For and in consideration of One Dollar and other good and valuable consideration, the receipt of which is hereby acknowledged, I, **Thomas B. O'Brien, of Blaine, Washington**, have sold, assigned and transferred, and do hereby sell, assign and transfer, unto **Shale and Sands Oil Recovery LLC**, having a principal office at 3501B N Ponce de Leon Blvd S. 388, St Augustine, FL 32084, (hereinafter "ASSIGNEE"), and its successors, the entire right, title and interest in and to certain inventions and applications as set forth in **EXHIBIT A** attached hereto, together with the entire right, title and interest in and to said application, and in and to Letters Patent which may be issued upon said application, and any divisions, extensions, continuations or reissues thereof.

I hereby also sell, assign and transfer unto ASSIGNEE the entire right, title and interest in and to said invention and in and to applications for Letters Patent therefore in all countries foreign to the United States of America, including all rights under any and all international conventions and treaties, including, but not limited to PCT, in respect of said invention and said applications for Letters Patent in foreign countries, and I further authorize ASSIGNEE to apply for Letters Patent in foreign countries directly in its own name, and to claim priority of the filing date of the application for Letters Patent of the United States of America under the provisions of any and all international conventions and treaties.

I agree that, when requested, I will, without charge to ASSIGNEE, but at its expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for securing and maintaining patents for said inventions in any and all countries and for vesting title thereto in ASSIGNEE, its successors, assigns and legal representatives or nominees.

I covenant to ASSIGNEE, its successors, assigns and legal representatives, that the interest and property hereby conveyed is free from all prior assignment, grant, mortgage, license or other encumbrance.

 A executor Tom O'Brien deceased 1/27/13
Thomas B. O'Brien Date

 1/27/13
Witness Date

EXHIBIT A

United States

TITLE	FILING DATE/ ISSUE DATE	APPL. NO./ PATENT NO.
METHOD AND SYSTEM FOR EXTRACTION OF HYDROCARBONS FROM OIL SHALE	06-Feb-2007	PCT/US07/03098
METHOD AND SYSTEM FOR EXTRACTION OF HYDROCARBONS FROM OIL SANDS	23-Feb-2007	PCT/US07/04852
METHOD FOR EXTRACTION OF HYDROCARBONS FROM LIMESTONE FORMATIONS	08-Jun-2007	PCT/US07/13643
METHOD AND SYSTEM FOR EXTRACTION OF HYDROCARBONS FROM OIL SANDS	26-Apr-2011	7,931,080
METHOD AND SYSTEM FOR EXTRACTION OF HYDROCARBONS FROM OIL SHALE	19-Jul-2011	7,980,304
METHOD AND SYSTEM FOR EXTRACTION OF HYDROCARBONS FROM OIL SANDS	29-May-2012	8,186,430
METHOD AND SYSTEM FOR THE REDUCTION OF ELECTRICAL CONSUMPTION PERTAINING TO REFRIGERATION AND/OR FREEZING OF FOOD OR OTHER PRODUCTS REQUIRING COOLING	19-Sep-2011	61/536,281
RECOVERY OF ELEMENTS FROM HYDROTHERMAL PRODUCTS	27-Jan-2012	13/360,210
ENERGY CONSERVING CHILLING UNITS AND METHODS	05-Jan-2012	13/344,371
METHOD AND SYSTEM FOR EXTRACTION OF HYDROCARBONS FROM OIL SHALE	06-Feb-2006	60/765667
O'BRIEN REFRIGERATOR	06-Nov-2009	61/258802
METHOD AND SYSTEM FOR EXTRACTION OF HYDROCARBONS FROM OIL SHALE AND LIMESTONE FORMATIONS	06-Aug-2008	12/278509
METHOD AND SYSTEM FOR EXTRACTION OF HYDROCARBONS FROM OIL SANDS	24-Feb-2006	60/776435
METHOD AND SYSTEM FOR EXTRACTION OF HYDROCARBONS FROM OIL SANDS	20-Apr-2011	13/090819

TITLE	FILING DATE/ ISSUE DATE	APPL. NO./ PATENT NO.
METHOD AND PROCESS FOR THE SYSTEMATIC EXPLORATION OF URANIUM IN THE ATHABASCA BASIN	25-Jul-2008	12/179866
METHOD AND PROCESS FOR THE SYSTEMATIC EXPLORATION OF URANIUM	26-Jul-2007	60/962084
METHOD AND SYSTEM FOR EXTRACTION OF CHEMICAL ELEMENTS PRECIPITATED IN THE PROCESS OF HYDROTHERMAL ENERGY PRODUCTION	08-Feb-2010	61/302337
METHOD AND SYSTEM FOR THE REDUCTION OF ELECTRICAL CONSUMPTION PERTAINING TO REFRIGERATION AND/OR FREEZING OF FOOD OR OTHER PRODUCTS REQUIRING COOLING	07-Jan-2011	61/430649
METHOD FOR EXTRACTING RARE EARTH ELEMENTS FROM CONDENSATES AND/OR PRECIPITATES GENERATED BY THE PROCESS OF GEOTHERMAL POWER PRODUCTION	28-Jan-2011	61/437231

Australia

TITLE	FILING DATE/ ISSUE DATE	APPL. NO./ PATENT NO.
METHOD AND SYSTEM FOR EXTRACTION OF HYDROCARBONS FROM OIL SHALE	22-Mar-2012	2007212498

Brazil

TITLE	FILING DATE/ ISSUE DATE	APPL. NO./ PATENT NO.
METHOD AND SYSTEM FOR EXTRACTION OF HYDROCARBONS FROM OIL SHALE	06-Feb-2007	PI0707522-7

BR

Canada

TITLE	FILING DATE/ ISSUE DATE	APPL. NO./ PATENT NO.
METHOD AND SYSTEM FOR EXTRACTION OF HYDROCARBONS FROM OIL SHALE	06-Feb-2007	2641521
METHOD AND SYSTEM FOR EXTRACTION OF HYDROCARBONS FROM OIL SANDS	23-Feb-2007	2643214
METHOD AND PROCESS FOR THE SYSTEMATIC EXPLORATION OF URANIUM	28-Jul-2008	2638312

Europe

TITLE	FILING DATE/ ISSUE DATE	APPL. NO./ PATENT NO.
METHOD AND SYSTEM FOR EXTRACTION OF HYDROCARBONS FROM OIL SHALE	26-Nov-2008	07763286.7

Russia

TITLE	FILING DATE/ ISSUE DATE	APPL. NO./ PATENT NO.
METHOD AND SYSTEM FOR EXTRACTION OF HYDROCARBONS FROM OIL SHALE	06-Feb-2007	2008135734

Mexico

TITLE	FILING DATE/ ISSUE DATE	APPL. NO./ PATENT NO.
METHOD FOR EXTRACTION OF HYDROCARBONS FROM LIMESTONE FORMATIONS	08-Jun-2007	MX/a/2008/010923

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