

AS. 121.737

SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO



No. 12-135178-00002-0000

Fecha: 2012-11-01 16:24:27 Dep. 2020 DIR.NUEVASCR
Tra. 2 PATENTES Eve: 1 REGDEPOSITO
Act. 444 RESPUESTAREQUE Folios: 61

Señor Director
DIRECCIÓN DE NUEVAS CREACIONES
SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO
E. S. D.

RESPUESTA A OFICIO 15977 DEL 11 DE SEPTIEMBRE DE 2012

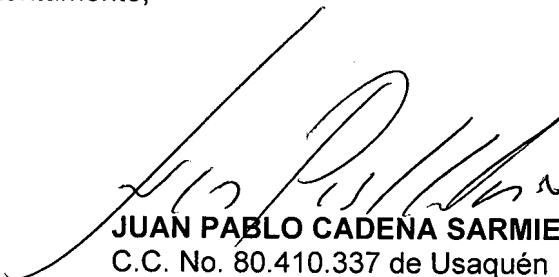
REF: Expediente No. 12 135.178 - Solicitud de Patente
a favor de **INTEVEP, S.A.**

Titulada: PROTECCIÓN DE NÚCLEOS DE FORMACIONES DE
HIDROCARBUROS Y APARATO DE TRANSPORTE

JUAN PABLO CADENA SARMIENTO, vecino de Bogotá, portador de la tarjeta profesional No. 57492, obrando como apoderado de la sociedad **INTEVEP, S.A.** según lo acredita el documento de poder presentado en esa Dirección, para dar cumplimiento al requerimiento notificado por fijación en lista el 11 de septiembre de 2012 de acuerdo con los Artículos 38 y 39 de la Decisión 486 de la comisión de la Comunidad Andina, me permito allegar:

1. Documento donde consta la cesión del derecho a la Patente otorgado por los inventores al solicitante.
2. Copia certificada por la Oficina de Patentes de Estados Unidos de la primera solicitud presentada para la misma invención de la cual REIVINDICAMOS PRIORIDAD, junto con su correspondiente traducción al español.

Del señor Director atentamente,


JUAN PABLO CADENA SARMIENTO
C.C. No. 80.410.337 de Usaquén
Calle 70A No. 4-41

Bogotá, 31 de octubre de 2012
JPC/jpg
Folios: 61

APOSTILLE

(Convention de La Haye du 5 octobre 1961)

1. Country: United States of America

This public document

2. has been signed by E. Bornett

3. acting in the capacity of Certifying Officer

4. bears the seal/stamp of U.S. Patent and Trademark Office

Certified

5. at Washington, D.C.

6. the fourteenth of August, 2012

7. by Assistant Authentication Officer, United States Department of State

8. No. 12034537-2

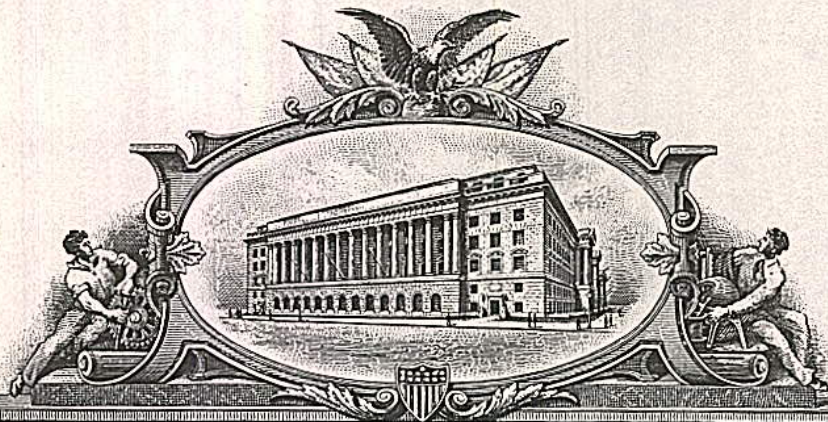
9. Seal/Stamp:

10. Signature:



William F. Finlan

A 7369677



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME;

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office

August 06, 2012

THIS IS TO CERTIFY THAT ANNEXED IS A TRUE COPY FROM THE
RECORDS OF THIS OFFICE OF A DOCUMENT RECORDED ON
AUGUST 12, 2011.

By Authority of the
Under Secretary of Commerce for Intellectual Property
and Director of the United States Patent and Trademark Office



E. Bornett
E. BORNETT
Certifying Officer

PATENT ASSIGNMENT

Electronic Version v1.1
Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Leonardo Graterol</td><td>12/20/2010</td></tr><tr><td>Juan Ramos</td><td>12/23/2010</td></tr><tr><td>Ricardo Rojas</td><td>02/01/2011</td></tr><tr><td>Richard Rengifo</td><td>12/23/2010</td></tr><tr><td>George Quercia</td><td>12/23/2010</td></tr></tbody></table>	Name	Execution Date	Leonardo Graterol	12/20/2010	Juan Ramos	12/23/2010	Ricardo Rojas	02/01/2011	Richard Rengifo	12/23/2010	George Quercia	12/23/2010	
Name	Execution Date												
Leonardo Graterol	12/20/2010												
Juan Ramos	12/23/2010												
Ricardo Rojas	02/01/2011												
Richard Rengifo	12/23/2010												
George Quercia	12/23/2010												
RECEIVING PARTY DATA													
Name:	Intevep, S.A.												
Street Address:	Apartado 76343												
City:	Caracas												
State/Country:	VENEZUELA												
Postal Code:	1070A												
PROPERTY NUMBERS Total: 1													
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>13208928</td></tr></tbody></table>	Property Type	Number	Application Number:	13208928									
Property Type	Number												
Application Number:	13208928												
CORRESPONDENCE DATA													
Fax Number:	(203)865-0297												
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>													
Phone:	203-777-6628												
Email:	eva@bachlap.com												
Correspondent Name:	BACHMAN & LAPOINTE, P.C.												
Address Line 1:	900 CHAPEL STREET												
Address Line 2:	SUITE 1201												
Address Line 4:	NEW HAVEN, CONNECTICUT 06510												
ATTORNEY DOCKET NUMBER:	08-385												
NAME OF SUBMITTER:	George A. Coury												

CH \$40.00 13208928

501625308

PATENT
REEL: 026744 FRAME: 0788

Total Attachments: 4

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PATENT

REEL: 026744 FRAME: 0789

ASSIGNMENT

WHEREAS, WE, Leonardo Graterol, a citizen of Venezuela; residing at Urb. Llano Alto, res. Sausalito, calle 1, casa 26-1, Carrizal, Estado Miranda, Zona Postal 1203, Venezuela; Juan Ramos, a citizen of Venezuela; residing at Calle principal Los Budares, Urbanizacion Los Budares, Torre A, Apartamento 93-A, San Antonio de Los Altos, Estado Miranda, Venezuela; Ricardo Rojas, a citizen of Venezuela; residing at 5/273 Lord Street, Highgate, Western Australia 6003; Richard Rengifo, a citizen of Venezuela; residing at Urb. Valle Alto, Calle 1 Norte, Casa 64, Los Teques, Estado. Miranda. Zona Postal 1201, Venezuela; George Quercia, a citizen of Venezuela; residing at Materials Innovation Institute (M2i) and Eindhoven University of Technology (TU/e), Faculty of Architecture, Building and Planning, Building Physics and Systems Unit, Vertigo Building, 6th Floor, VRT 6.09, P.O. Box 513, 5600 MB, Eindhoven, The Netherlands, have invented certain improvements in HYDROCARBON FORMATION CORE PROTECTION AND TRANSPORTATION APPARATUS, identified as Attorney Docket No. 08-385, and described in a patent application executed by the undersigned on the dates set after the signatures hereto, being owners of all right, title and interest in and to said application and in and to any invention described therein, free from all prior assignments, agreements, licenses, mortgages, or other encumbrances whatsoever, and having full right to convey the entire interest both legal and equitable herein assigned; and

WHEREAS, Intevp, S.A., of Apartado 76343, Caracas 1070A, Venezuela is desirous of acquiring the entire right, title and interest in and to said invention or inventions and any and all patents to be obtained therefor;

NOW, THEREFORE, in consideration of One Dollar (\$1.00) each

PATENT
REEL: 026744 FRAME: 0790

7

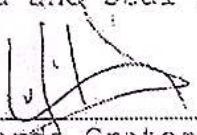
and other good and valuable consideration, the receipt of which is hereby acknowledged by the undersigned, the undersigned do hereby sell, assign, transfer and set over unto said assignee, its successors and assigns, the entire right, title and interest in and to said invention or inventions, as described in the aforesaid application, in any form or embodiment thereof, and in and to the aforesaid application; and in and to any application filed in any foreign country based thereon, including the right to file said foreign applications under the provisions of the International Convention; also the entire right, title and interest in and to any and all patents or reissues or extensions thereof to be obtained in this or any foreign country upon said invention or inventions and any divisional, continuation, continuation-in-part or substitute applications which may be filed upon said invention or inventions in this or any foreign country; and the undersigned hereby authorizes and requests the issuing authority to issue any and all patents on said application or applications to said assignee or its successors and assigns.

The undersigned further agree, without any further payment or compensation by said assignee or its successors and assigns, to communicate to said assignee, its representatives or agents or its successors and assigns, any facts relating to said invention or inventions including evidence for interference purposes or for other legal proceedings whenever requested; testify in any interference or other legal proceedings, whenever requested; execute and deliver, on request, all lawful papers required to make any of the foregoing provisions effective; and generally do everything possible to aid said assignee, its successors or assigns and nominees to obtain and enforce proper patent protection for said invention or inventions in this or

any foreign country.

IN TESTIMONY WHEREOF, the undersigned have hereunto set their hand and seal on the date after their signature.

L.S.


Leonardo Graterol

22/12/2010
Date

L.S.


Juan Ramos

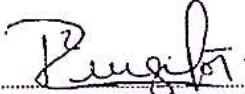
23/12/2010
Date

L.S.

Ricardo Rojas

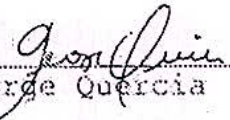
Date

L.S.


Richard Rengifo

23/12/2010
Date

L.S.


George Quercia

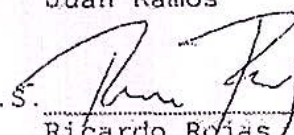
23/12/2010
Date

any foreign country.

IN TESTIMONY WHEREOF, the undersigned have hereunto set their hand and seal on the date after their signature.

L.S. _____
Leonardo Graterol Date _____

L.S. _____
Juan Ramos Date _____

L.S.  _____
Ricardo Rojas Date Feb. 1, 2011

L.S. _____
Richard Rengifo Date _____

L.S. _____
George Quercia Date _____

TRADUCCIÓN AL ESPAÑOL DEL DOCUMENTO DE CESIÓN A INTEVEP,
S.A. firmado por los cedentes y el cesionario.

APOSTILLA

(Convención de la Haya del 5 de octubre de 1961)

1. País: Estados Unidos de América

Este documento público

2. ha sido firmado por E. BORNETT
3. actuando en capacidad de Funcionario que Certifica
4. lleva el sello/timbre de la Oficina de Marcas y Patentes de los Estados Unidos

Certificado

5. en Washington, D.C.
6. el catorce de agosto de 2012
7. por el Funcionario de Autenticación Asistente, Departamento de Estado de los Estados Unidos.
8. No. 12034537-2
9. Sello/timbre

10. Firma

(Firma)

William F. Finlan

[Sello]

DEPARTAMENTO DE ESTADO
ESTADOS UNIDOS DE AMÉRICA

LOS ESTADOS UNIDOS DE AMÉRICA
A TODO AQUEL QUE PUEDA LLEGAR LA PRESENTE:

DEPARTAMENTO DE COMERCIO DE ESTADOS UNIDOS
Oficina de Marcas y Patentes de los Estados Unidos

06 de agosto de 2012

LA PRESENTE CERTIFICA QUE EL ANEXO ES UNA COPIA VERDADERA
TOMADA DE LOS ARCHIVOS DE ESTA OFICINA DE UN DOCUMENTO
ARCHIVADO EL 12 DE AGOSTO DE 2011.

Por la autoridad del
Subsecretario de Comercio para la Propiedad Intelectual
y Director de la Oficina de Marcas y Patentes de los Estados Unidos

(Firma)
E. BORNETT
Funcionario que certifica

Hay un sello que dice:
Oficina de Marcas y Patentes de Estados Unidos
Departamento de Comercio

CESIÓN DE PATENTE

Versión electrónica v1.1

Versión de la hoja v1.1

TIPO DE PRESENTACIÓN:	CESIÓN NUEVA
NATURALEZA DEL ACUERDO:	CESIÓN
DATOS DE LA PARTE CEDENTE	
Nombre	Fecha de ejecución
Leonardo Graterol	12/20/2010
Juan Ramos	12/23/2010
Ricardo Rojas	02/01/2011
Richard Rengifo	12/23/2010
George Quercia	12/23/2010
DATOS DE LA PARTE QUE RECIBE	
Nombre:	Intevep, S.A.
Dirección:	Apartado 76343
Ciudad:	Caracas
Estado/País:	VENEZUELA
Código Postal:	1070A
NÚMERO DE PROPIEDADES Total: 1	
Tipo de Propiedad	Número
Número de solicitud:	13208928
DATOS DE CORRESPONDENCIA	
Número de Fax:	(203) 865-0297
<i>La correspondencia será enviada por Correo de Estados Unidos cuando los intentos de hacerlo por fax no sean exitosos.</i>	
Teléfono:	203 777 6628
Correo electrónico:	eva@bachlap.com
Nombre del destinatario:	Bachman & LaPointe, P.C.
Dirección Línea 1:	900 Chapel Street
Dirección Línea 2:	Suite 1201
Dirección Línea 4:	New Haven, CONNECTICUT 06510
NÚMERO DE EXPEDIENTE DE ABOGADO:	08-385
NOMBRE DEL REMITENTE:	George A. Coury
501625308	PATENTE
ROLLO: 026744 CUADRO: 0788	

Total Anexos: 4

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Fuente=08-385_Executed_Assignment_8-12-11#page4.tif

PATENTE

ROLLO: 026744 CUADRO: 0789

CESIÓN

CONSIDERANDO QUE NOSOTROS, **Leonardo Graterol**, un ciudadano de Venezuela, residente en Urb. Llano Alto, Res. Sausalito, Calle 1, Casa 26-1, 1203, Carrizal, Estado Miranda, Zona Postal 1203 Venezuela; **Juan Ramos**, un ciudadano de Venezuela, residente en Calle principal Los Budares, Urbanización Los Budares, Torre A, Apartamento 93-A, San Antonio de los Altos, Estado Miranda, Venezuela; **Ricardo Rojas**, un ciudadano de Venezuela, residente en 5/273, Lord Street, Highgate, Western Australia 6003; **Richard Rengifo**, un ciudadano de Venezuela, residente en Urb. Valle Alto, Calle 1 Norte, Casa 64, Los Teques, Estado Miranda, Zona Postal 1201, Venezuela; y **George Quercia**, un ciudadano de Venezuela, residente en Materials Innovation Institute (M2i) and Eindhoven University of Technology (TU/e), Faculty of Architecture, Building and Planning, Building Physics and Systems Unit, Vertigo Building, 6th Floor, VRT 6.09, P.O. Box 513, 5600 MB, Eindhoven, Países Bajos, hemos inventado ciertas mejoras en PROTECCIÓN DE NÚCLEOS DE FORMACIONES DE HIDROCARBUROS Y APARATO DE TRANSPORTE, identificado como Expediente de Abogado No. 08-385, y descrito en una solicitud de patente ejecutada por los suscritos en las fechas establecidas después de las firmas del presente, siendo los propietarios de todo el derecho, título e interés en y para dicha solicitud y en y para cualquier invención descrita en la presente, libres de todas las cesiones anteriores, acuerdos, licencias, hipotecas u otros impedimentos en absoluto, y teniendo el derecho total para transmitir el interés total, tanto legal como equitativo por la presente cedido; y

CONSIDERANDO QUE, Intevep, S.A., con sede de negocios en Apartado 76343, Caracas 1070A, Venezuela, desea adquirir el derecho, título e interés total en y para dicha invención o invenciones, y cualquier y todas las patentes que sean obtenidas para esta;

AHORA, POR LO TANTO, en consideración de 1 dólar (\$1.00) cada una y otra consideración buena y valiosa, el recibo de la cual los suscritos

PATENTE
ROLLO: 026744 CUADRO: 0790

reconocen mediante la presente, los suscritos por la presente veden, ceden, transfieren y disponen a dicho Cesionario, sus sucesores y cedentes, el derecho, título e interés total en y para dicha invención o invenciones, como se describe en la solicitud mencionada anteriormente, en cualquier forma o modalidad de la misma, y en y para la solicitud mencionada; y en y para cualquier solicitud presentada en cualquier país extranjero con base en dicha solicitud, incluyendo el derecho a presentar dichas solicitudes extranjeras bajo las disposiciones de la Convención Internacional; también el derecho, título e interés total en y para cualquier y todas las patentes o reexpediciones o extensiones de las mismas a ser obtenidas en este o cualquier país extranjero sobre dicha invención o invenciones y cualquier solicitud de divisional, continuación, continuación parcial o sustitución que pueda ser presentada a favor de dicha invención o invenciones en este o en cualquier país extranjero; y los suscritos por la presente autorizan y solicitan a la autoridad encargada de expedir, expedir cualquier y todas las patentes sobre dicha solicitud o solicitudes a dicho Cesionario o sus sucesores y cedentes.

Los suscritos además acuerdan, sin ningún pago o compensación adicional por parte de dicho Cesionario o sus sucesores y cedentes, comunicar a dicho Cesionario, sus representantes o agentes o sucesores y cedentes, cualquier hecho relacionado co dicha invención o invenciones, incluyendo evidencia para fines de interferencia o para otros procesos legales cuando se requiera; testificar en cualquier interferencia u otros procesos legales, cuando se requiera; ejecutar y entregar, por petición expresa, todos los documentos legales requeridos para hacer efectiva cualquiera de las disposiciones anteriores; y en general, hacer todo lo posible para ayudar a dicho Cesionario, sus sucesores o cedentes y designados a obtener y mantener en vigencia la adecuada protección de patente para dicha invención o invenciones en este o cualquier país extranjero.

EN TESTIMONIO DE LO CUAL, los sucritos han puesto su firma y sello al presente, en la fecha después de sus firmas:

PATENTE
ROLLO: 026744 CUADRO: 0791

(LS.) _____ (firma)	<u>20.12.2012</u>
LEONARDO GRATEROL	Fecha
(LS.) _____ (firma)	<u>23.12.2010</u>
JUAN RAMOS	Fecha
(LS.) _____	<u>23.12.2010</u>
RICARDO ROJAS	Fecha
(LS.) _____ (firma)	<u>23.12.2010</u>
RICHARD RENGIFO	Fecha
(LS.) _____ (firma)	<u>23.12.2010</u>
GEORGE QUERCIA	Fecha

(LS.) _____
LEONARDO GRATEROL

Fecha

(LS.) _____
JUAN RAMOS

Fecha

(LS.) _____ (firma)
RICARDO ROJAS

01.02.2011
Fecha

(LS.) _____
RICHARD RENGIFO

Fecha

(LS.) _____
GEORGE QUERCIA

Fecha

PA 7369677



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office

August 01, 2012

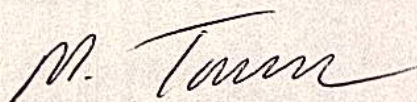
THIS IS TO CERTIFY THAT ANNEXED HERETO IS A TRUE COPY FROM
THE RECORDS OF THE UNITED STATES PATENT AND TRADEMARK
OFFICE OF THOSE PAPERS OF THE BELOW IDENTIFIED PATENT
APPLICATION THAT MET THE REQUIREMENTS TO BE GRANTED A
FILING DATE UNDER 35 USC 111.

APPLICATION NUMBER: 13/208,928

FILING DATE: August 12, 2011

THE COUNTRY CODE AND NUMBER OF YOUR PRIORITY
APPLICATION, TO BE USED FOR FILING ABROAD UNDER THE PARIS
CONVENTION, IS US13/208,928

By Authority of the
Under Secretary of Commerce for Intellectual Property
and Director of the United States Patent and Trademark Office



M. TARVER
Certifying Officer

Electronic Acknowledgement Receipt

EFS ID:	10727879
Application Number:	13208928
International Application Number:	
Confirmation Number:	9008
Title of Invention:	HYDROCARBON FORMATION CORE PROTECTION AND TRANSPORTATION APPARATUS
First Named Inventor/Applicant Name:	Leonardo Graterol
Customer Number:	34704
Filer:	George A. Coury/Eva Kendrick
Filer Authorized By:	George A. Coury
Attorney Docket Number:	08-385
Receipt Date:	12-AUG-2011
Filing Date:	
Time Stamp:	15:51:51
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	\$1090
RAM confirmation Number	2334
Deposit Account	020184
Authorized User	
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: Charge any Additional Fees required under 37 C.F.R. Section 1.16 (National application filing, search, and examination fees) Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)	

Charge any Additional Fees required under 37 C.F.R. Section 1.19 (Document supply fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.20 (Post Issuance fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Application Data Sheet	08-385_ADS_8-12-11.pdf	1479105 b291a06a739e718d4c913c5e52a94672f690a25c	no	5
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Information:					
2	Drawings-only black and white line drawings	08-385_Forma1_Drawings_8-12-11.pdf	166396 18440669ab51dc6b0add22b0da89318951c2815a	no	3
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	Document Description		Start	End	
	Specification		1	12	
	Claims		13	16	
	Abstract		17	17	
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Information:					
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Warnings:					
Information:					
			Total Files Size (in bytes):	2081166	
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					

08-385

**HYDROCARBON FORMATION CORE PROTECTION
AND TRANSPORTATION APPARATUS**

BACKGROUND OF THE INVENTION

[0001] The invention relates to core samples from subterranean formations, potential hydrocarbon producing formations and the like, and more particularly, to an apparatus for protecting a core sample during transportation.

[0002] It is known to obtain cores from hydrocarbon and other types of formations in subterranean locations by driving a tube into the core and then bringing the tube to the surface where the sample of the material from within the tube can be analyzed for various different hydrocarbon exploration and producing information.

[0003] In the course of being brought from the subterranean location to the surface, the core is exposed to physical, chemical and environmental changes. These influences are not desirable as the core at surface conditions and after being exposed to other foreign substances begins to lose value as being indicative of formation conditions. This situation is worsened by the fact that the core must generally be transported at the surface to a facility for analysis.

[0004] The need exists for an apparatus for protecting a core from a subterranean formation during transportation.

[0005] The above concerns are particularly true in connection with evaluation of shale formations. Shale formations have become increasingly of interest in the hydrocarbon industry, and are important from a drilling

08-385

point of view as more than 70% of the total column formations are represented by shale, and major operational problems take place in such formations. In addition, shale formations are typically under conditions which are even more subject to deterioration as a core is being transported on the surface, and therefore the need for an apparatus to address physical, chemical, and environmental changes as the core is being transported is even more pronounced with respect to shale formations.

SUMMARY OF THE INVENTION

[0006] In accordance with the present invention, an apparatus is provided which stores a core from a hydrocarbon or other formation at a subterranean location and protects that core from changes in conditions and exposure to other physical or chemical influences as the core is being transported to a facility for study of same.

[0007] According to the invention, an apparatus for preserving a formation core is provided which comprises an outer tube having an opening and a cover for the opening, the cover having a hermetic seal for producing a hermetically sealed environment within the outer tube, a core tube positioned within the outer tube for receiving a core to be preserved, the core tube being radially suspended within the outer tube to prevent contact of the core tube with the outer tube, and an inlet device for filling the outer tube with a core-friendly fluid after the core tube is in place within the outer tube. The core tube within the outer tube defines an annular space between these two tubes, and this annular space is for holding

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fluids introduced into the container through the inlet to aid in preserving the core.

[0008] The core tube can be suspended within the outer tube by a centralizing system, for example three or more spring loaded longitudinal plates which serve to keep the core tube spaced from the inner wall of the core tube and outer tube. In addition, an axial spring system can be provided, to absorb shocks to the overall apparatus in the course of transportation and prevent these shocks from being transmitted to the core within the core tube.

[0009] The core tube can advantageously be provided with one or more longitudinal slots or cutouts in the sidewall which lighten the device, and a downwardly curved edge which serves to ease the loading and removal process so that less potential damage is done to the core when it is being removed from the core tube.

[0010] Stabilizing structures may be provided on the outer tube for supporting the apparatus in a horizontal position. These stabilizing structures can advantageously position opposite to the handles on the outer tube.

[0011] The longitudinal plates are preferably spring mounted within the core tube, and the spring mounting can be conducted through adjustable spring loaded pistons so that the longitudinal plates can be positioned at a particular distance from each other to accommodate different-sized core samples.

[0012] The cover can advantageously have an adjustable axial spring mounted therein for providing axial spring-cushioned support for the core sample in an adjustable manner, to accommodate core samples of different length.

[0013] Other advantageous features of the present invention will appear below.

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[0014] With the present invention, a core can be obtained and then protected during transportation from conditions which cause the sample to change. Thus, the sample, shale, for example preserved in the apparatus of the present invention is maintained in more useful condition and can provide better information for use in evaluating the subterranean formation from which it was obtained.

BRIEF DESCRIPTION OF THE DRAWINGS

[0015] A detailed description of preferred embodiments of the present invention follows, with reference to the attached drawings, wherein:

[0016] Figure 1 schematically illustrates an apparatus according to the invention;

[0017] Figure 2 illustrates a core tube of the apparatus of Figure 1;

[0018] Figure 3 further illustrates components of the core tube within the outer tube of the assembly of Figure 1;

[0019] Figure 4 is a top view of the core tube of the present invention holding a core;

[0020] Figures 5 further illustrates the outer tube of the apparatus of the present invention;

[0021] Figure 6 further illustrates the cover of the apparatus of the invention; and

[0022] Figure 7 further illustrates components of the cover of the apparatus in accordance with the present invention.

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DETAILED DESCRIPTION

[0023] The invention relates to an apparatus for transporting a core sample and more specifically to an apparatus for transporting a core sample under controlled chemical, physical, and atmospheric conditions.

[0024] Figure 1 schematically illustrates an apparatus 10 according to the invention, which has an outer tube 12 having an open end 14, a core tube 16 for holding a core sample 1, core tube 16 being sized to fit within outer tube 12 and which will be further described below, and a cover 18 for covering open end 14. For ease in transportation, outer tube 12 can be provided with one or more handles 20 which can be used for manually transporting apparatus 10 as desired.

[0025] Before continuing with further description of the apparatus, it should be understood that apparatus 10 could advantageously be used to transport a substantially cylindrical core sample 1 which is obtained from subterranean formations. Such core samples are frequently used in the oil industry to evaluate formations through which drilling is being done. While useful for any core sample, the apparatus of the invention is particularly well suited to core samples from subterranean shale formations. Core sample 1 is obtained using conventional techniques and is then transported through a well from the formation from which it is obtained to the surface. At the surface, core sample 1 is introduced into core tube 16 of apparatus 10 according to the invention, and apparatus 10 is then sealed for transport of the core sample as desired, and as will be further discussed below.

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[0026] Cover 18 according to the invention can have a fluid inlet 22 and a fluid inlet plug 24 as will be further discussed below. Threads 26, 28 (Figures 5, 6) are provided at open end 14 and cover 18 for use in securing cover 18 over open end 14 of outer tube 12 as desired. In addition, fluid inlet 22 and fluid inlet plug 24 can also advantageously be secured using threads, for example with fluid inlet plug 24 having male threads and fluid inlet 22 having female threads.

[0027] The threaded connections between outer tube 12 and cover 18, and between fluid inlet 22 and fluid inlet plug 24 are advantageously structured to provide a sturdy and leak-proof seal so that the inner space of outer tube 12 can be hermetically sealed, for example at elevated pressures, without risk of leaks and without significant degradation of the environmental conditions of the sealed outer tube 12. To this end, O rings and various other seal members may be positioned between threads 26, 28 and also between fluid inlet 22 and fluid inlet plug 24, as desired.

[0028] Outer tube 12, cover 18, and fluid inlet plug 24 can advantageously be made of any suitable material which is both sturdy, strong enough to sustain high internal pressures and preferably sufficiently light that apparatus 10 can be manually carried from location to location. One particularly suitable material for use in manufacturing outer tube 12 and its related components is aluminum. Of course, other suitable materials can be used within the above-outlined confines, as could be surmised, given this guidance, by a person skilled in the art.

[0029] Figures 2-4 further illustrate core tube 16 according to the invention. As shown, core tube 16 can

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advantageously be a tube smaller in diameter than outer tube 12, and preferably also somewhat shorter in length than outer tube 12. Tube 16 preferably has an open top 15 and a closed bottom 13, and bottom 13 can advantageously be made from a resilient material such as rubber or the like. As best seen in Figure 4, core tube 16 can advantageously have a plurality of cutouts 17 in its circumference, and these cutouts advantageously reduce the weight of the structure, and also allow better access of fluids introduced into apparatus 10 to core 1 held within core tube 16.

[0030] It is desired that core 1 be held within core tube 16 in a way which minimizes contact of core 1 with the inner walls of core tube 16. To this end, a plurality of longitudinal plates 19 can be mounted to an inside surface of core tube 16, for example through spring loaded pistons 21 which can have securing member 23 such as an adjustable bolt or the like, for securing longitudinal plate 19 at a particular position with respect to an inner surface of core tube 16. In this way, longitudinal plates 19 can be adjusted to core samples 1 of various different diameter. It should be noted that while the embodiment of Figures 2-4 shows three longitudinal plates 19 for supporting core sample 1, it could be effective to utilize only two, or four or more of such longitudinal plates, and the arc length of each longitudinal plate could then be adjusted to provide suitable support for core sample 1 with minimum material used and with the smallest surface area contact between longitudinal plates 19 and core sample 1 for the purpose of minimizing any impact on core sample 1 and also for reducing weight of the overall apparatus. As seen in Figure 4, spring loaded pistons 21 can also advantageously

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support core tube 16 within outer tube 12 against radial movement of core tube 16 within outer tube 12.

[0031] Referring to Figure 1, core tube 16 and core sample 1 held within core tube 16 are also preferably held axially within outer tube 12 through spring structures 25, 27 at each end of the device as well. Spring 25 is shown in Figures 1 and 2 and this spring 25 provides cushioned support for the lower end or bottom 13 of core tube 16 within outer tube 12. Spring 27 is positioned at an upper end of apparatus 10 to provide cushioned support between an upper end of core sample 1 and the cover 18. This spring and support is also adjustable, as will be further discussed below.

[0032] Figure 5 again illustrates outer tube 12 according to the invention, and between Figures 1 and 5, it can be seen that one or more stabilizing supports 30 can be provided, preferably radially extending from outer tube 12 and defining a flat surface upon which apparatus 10 can rest when apparatus 10 is laid on its side. Further, stabilizing support 30 can preferably be defined on an opposite side of outer tube 12 with respect to handles 20, such that when apparatus 10 is resting on stabilizing supports 30, handles 20 are in a substantially upward position for ease in lifting.

[0033] Figures 6 and 7 further illustrate the features of cover 18 in accordance with the present invention. Cover 18 can have internal or female threads 26 to engage with external or male threads 28 on outer tube 12. Threads 26, 28 can be seen from a consideration of Figures 5 and 6.

[0034] Cover 18 also preferably has a fluid inlet 22 the function of which will be discussed below, and a fluid inlet plug 24. Further, a pressure valve 29 can be

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incorporated into cover 18 for use in monitoring and/or releasing pressure within apparatus 10.

[0035] Cover 18 also supports spring 27 as mentioned previously, and spring 27 interacts with core sample 1 through an adjustable concentric tube assembly 32 having an adjustment bolt 34 for securing tube component 36 relative to tube component 38. At the core sample end of concentric tube assembly 32, a core sample support 40 can be provided, preferably having a rubberized contact surface 42, and support 40 can be rotatably mounted to lower component 36 through a bearing structure 44 which advantageously allows for free rotation of support 40 and rubber contact surface 42 relative to concentric tube assembly 32. This allows cover 18 to be threaded onto outer tube 12 without forcing frictional or rotational forces to be translated to core sample 1.

[0036] Spring 27 can be positioned in a sleeve 29 which slidably receives one end of concentric tube assembly 32, and sleeve 29 can be mounted to an inner surface of cover 18 as shown in Figures 1 and 6.

[0037] As can be seen from a consideration of Figure 7, concentric tube assembly 32 is spring biased by spring 27 with respect to cover 18, and the axial position of support 40 can be adjusted by adjusting the position of lower component 36 relative to upper component 38 of concentric tube assembly 32.

[0038] In order to facilitate solid engagement with adjusting bolt 34, lower component 36 of concentric tube assembly 32 can be provided with a corrugated outer wall if desired.

[0039] Returning to Figure 2, core tube 16 can advantageously be provided with a downwardly curved edge

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46, preferably at an outer end thereof, this downwardly curved edge 46 advantageously helps in loading and unloading of core sample 1 into core tube 12 in accordance with the invention. Downwardly curved edge 46 can be downwardly curved in the shape of a half-circle, or other shapes, with the goal being to allow wider access for maneuvering core sample 1 into and out of core tube 16 as desired.

[0040] Core tube 16 can also be provided from a material following the same considerations as outlined with respect to outer tube 12 above. Flexibility of core tube 16 may be more important than it is with respect to outer tube 12, and it should also of course be appreciated that core tube 16 does not need to be hermetically sealed. Given this and the weight considerations of the entire apparatus, core tube 16 can suitably be provided from aluminum, by way of non-limiting example, and other suitable materials include but are not limited to titanium alloy, magnesium aluminum, fiber reinforced plastic (FRP) and the like. The suitable material is preferably relatively light to facilitate transportation.

[0041] In use, apparatus 10 advantageously allows for transportation of a core sample while protecting the core sample from shocks due to impacts which may occur during manual transportation. In addition, apparatus 10 according to the invention can be used to hermetically seal the core in an inner space which is filled with a suitable carrier fluid, such as for example diesel fuel or the like.

[0042] In order to obtain such transportation, the core sample is first obtained from formation at a down hole location utilizing well known coring techniques. These techniques include, but are not limited to, the driving of

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a tube into the formation and then removal of the tube, with enclosed core, from the well. Once the sample is obtained and brought to surface level through the well, the core sample can advantageously be positioned into a core tube according to the invention, and the core tube can then be suspended within an outer tube according to the invention. Cover 18 is then positioned over open end 14 of outer tube 12, with the core tube 16 and enclosed core sample 1 positioned therein. At this stage, prior to or during the loading of core sample 1 into core tube 16, the adjustable bolts 23 and spring loaded pistons 21 can be adjusted in core tube 16 to position longitudinal plates 19 at a desired spacing for properly supporting core sample 1 and further for properly positioning core tube 16 within outer tube 12. In addition, at this stage, the position of lower component 36 of concentric tube assembly 32 can be set relative to upper component 38 to provide for proper longitudinal support of core sample 1 as well. Once the configuration of apparatus 10 is properly set, and cover 18 is in place over open end 14 of outer tube 12, fluid inlet plug 24 can then be removed, or for that matter cover 18 can be installed over open end 14 with fluid inlet plug 24 already removed, such that a suitable core preserving fluid can be introduced into outer tube 12 through fluid inlet 22. This fluid can be diesel fuel, for example, or any other suitable fluid such as palm oil, biodiesel and any other oil based fluid formulated with low dynamic filtration characteristics, and which do not alter the wettability properties in the core sample.

[0043] Once apparatus 10 is completely filled with liquid, fluid inlet plug 24 can be positioned into fluid inlet 22 such that outer tube 12, cover 18 and fluid inlet plug 24

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define an inner space containing the core sample within core tube 16, and this inner space is hermetically sealed. Furthermore, springs 25, 27 and spring loaded plates 19 prevent contact of core sample 1 with the inner wall of outer tube 12, and absorb shocks which may be exerted upon outer tube 12 before such shocks reach core tube 16 and the core sample supported therein. When filled, apparatus 10 can be manually transported as desired, for example using handles 20 as described above.

[0044] Once loaded apparatus 10 has reached its desired location, cover 18 can be removed and the core sample can be removed from core tube 16 such that the core can then be analyzed as desired in order to determine various characteristics of the formation from which the sample was taken.

[0045] Under some circumstances, it is desired to transport core sample 1 under elevated pressure or vacuum, and this can also be accomplished through pressurizing and/or drawing vacuum through fluid inlet 22. Pressure valve 29 can be used for monitoring pressure for this purpose, and also can be configured as a pressure release valve if needed.

[0046] It should be appreciated that the above description is made with respect to a specific preferred embodiment of the present invention. Various aspects of the invention could be modified by a person of ordinary skill in the art without departing from the spirit of the invention, and the scope of this invention is therefore not to be limited by the disclosed embodiment, but rather it is to be considered with respect to the scope of the claims appended to this application.

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CLAIMS

1. An apparatus for transporting core samples, comprising:
an outer tube having an open end and a cover
removably mounted to the open end;
a core tube slidable into and out of the outer tube
when the cover is removed from the outer tube; and
a stabilizing structure between the core tube and
the outer tube, the stabilizing structure supporting the
core tube within the outer tube with the core tube
spaced from contact with an inner wall of the outer
tube.
2. The apparatus of claim 1, wherein the outer tube has at
least one handle for transporting the apparatus by hand.
3. The apparatus of claim 1, wherein the outer tube and
cover define an inner space of the apparatus which is
hermetically sealed when the cover is in position on the
outer tube.
4. The apparatus of claim 1, wherein the core tube has at
least one cutout.
5. The apparatus of claim 4, wherein the cutout passes
through the sidewall of the core tube.
6. The apparatus of claim 1, wherein the core tube has a
downwardly curved edge surface.

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7. The apparatus of claim 1, wherein the stabilizing structure comprises at least 3 radially spaced longitudinal plates.
8. The apparatus of claim 7, wherein the at least three radially spaced longitudinal plates are spring mounted to an inner surface of the core tube.
9. The apparatus of claim 8, wherein the at least three radially spaced longitudinal plates are spring mounted to the core tube through adjustable spring loaded pistons.
10. The apparatus of claim 1, wherein the stabilizing structure further comprises at least one axially positioned spring between a core sample held in the core tube and at least one of a bottom of the outer tube and the cover.
11. The apparatus of claim 1, wherein the at least one axially positioned spring comprises a spring mounted in a telescoping concentric tube assembly.
12. The apparatus of claim 11, wherein the telescoping concentric tube assembly is mounted within the cover.
13. The apparatus of claim 12, further comprising a core sample support at a core sample end of the adjustable concentric tube assembly, wherein the core sample support is rotatable relative to the telescoping tube assembly.

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14. The apparatus of claim 1, further comprising an oil inlet and an oil inlet plug for removably sealing the oil inlet, the oil inlet being positioned in one of the outer tube and the cover for introducing fluids and pressure into the outer tube.
15. The apparatus of claim 1, further comprising stabilizing structures extending from the outer tube.
16. The apparatus of claim 15, wherein the stabilizing structures define substantially flat surfaces for resting the apparatus in a horizontal position.
17. The apparatus of claim 16, wherein the outer tube has at least one handle for transporting the apparatus, the handle extending from one side of the outer tube, and wherein the stabilizing structures extend from an opposite side of the outer tube.
18. A method for transporting a core sample, comprising the steps of:
 - obtaining a core sample from a subterranean formation;
 - placing the core sample in a core tube;
 - placing the core tube through an open end of an outer tube into the outer tube, a stabilizing structure being between the core tube and the outer tube and between the core sample and the inner tube;
 - placing a cover over the open end of the outer tube;
 - introducing a fluid through a fluid inlet in the cover and into an inner space defined by the outer tube;

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sealing the fluid inlet so as to hermetically seal
the inner space of the outer tube; and
transporting the outer tube to a desired location.

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ABSTRACT

An apparatus for transporting core samples includes an outer tube having an open end and a cover removably mounted to the open end; a core tube slidable into and out of the outer tube when the cover is removed from the outer tube; and a stabilizing structure between the core tube and the outer tube, the stabilizing structure supporting the core tube within the outer tube with the core tube spaced from contact with an inner wall of the outer tube.

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**DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN
APPLICATION DATA SHEET (37 CFR 1.76)**

Title of Invention	HYDROCARBON FORMATION CORE PROTECTION AND TRANSPORTATION APPARATUS
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As the below named inventor(s), I/we declare that:

This declaration is directed to:

☒ The attached application, or
☐ Application No. _____ filed on _____
☐ As amended on _____ (if applicable);

I/we believe that I/we am/are the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought;

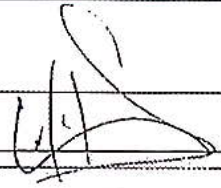
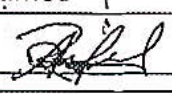
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FULL NAME OF INVENTOR(S)	
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☐ Additional inventors or a legal representative are being named on _____ additional form(s) attached hereto.

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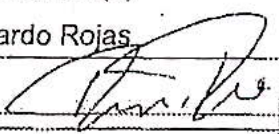
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FULL NAME OF INVENTOR(S)	
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Signature: 	Citizen of: <u>VE</u>
Inventor two: <u>Richard Rengifo</u>	Date: _____
Signature: _____	Citizen of: <u>VE</u>

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FULL NAME OF INVENTOR(S)Inventor one: Ricardo Rojas Date: _____Signature: _____ Citizen of: VEInventor two: Richard Rengifo Date: 23/12/2010Signature: Rengifo Citizen of: VE☐ Additional inventors or a legal representative are being named on _____ additional form(s) attached hereto.

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Title of Invention

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The attached application, or



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I/we acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me/us to be material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT International filing date of the continuation-in-part application.

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Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.

All statements made herein of my/our own knowledge are true, all statements made herein on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001, and may jeopardize the validity of the application or any patent issuing thereon.

FULL NAME OF INVENTOR(S)

Inventor one: George Quercia

Date: 30/12/10

Signature: *George Quercia*

Citizen of: VE

Inventor two: _____

Date: _____

Signature: _____

Citizen of: _____

☐ Additional inventors or a legal representative are being named on _____ additional form(s) attached hereto.

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 1 minute to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

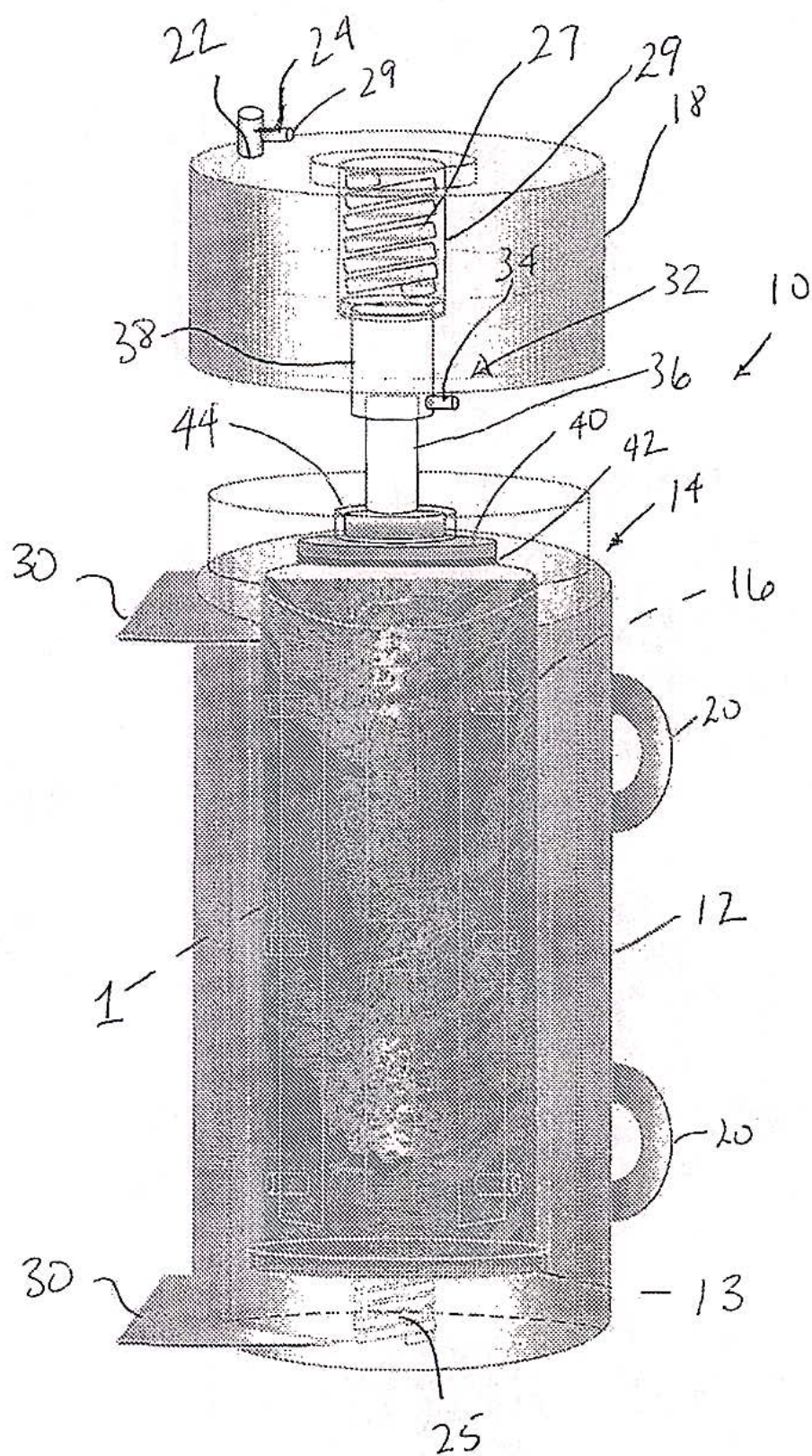


Figure 1

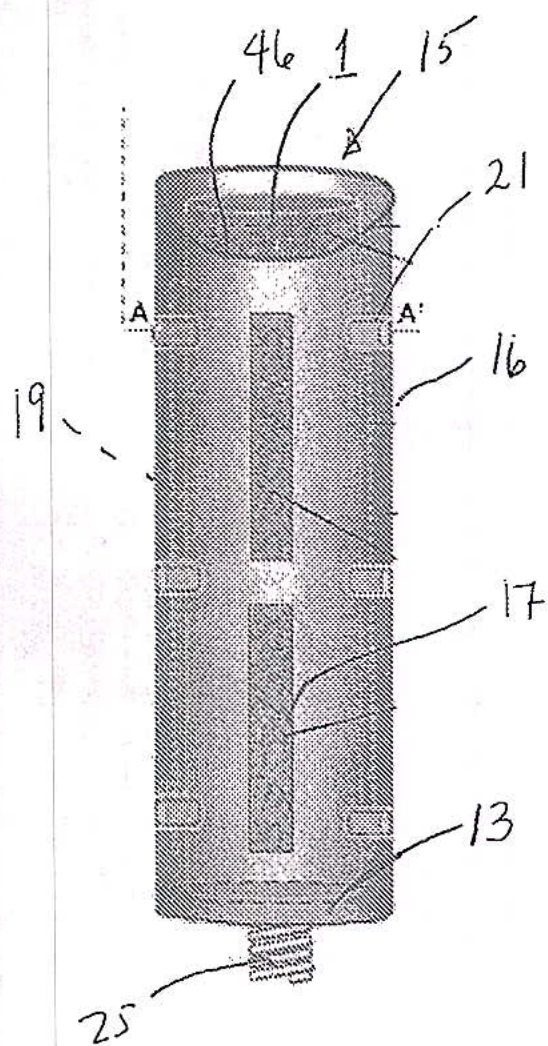


Figure 2

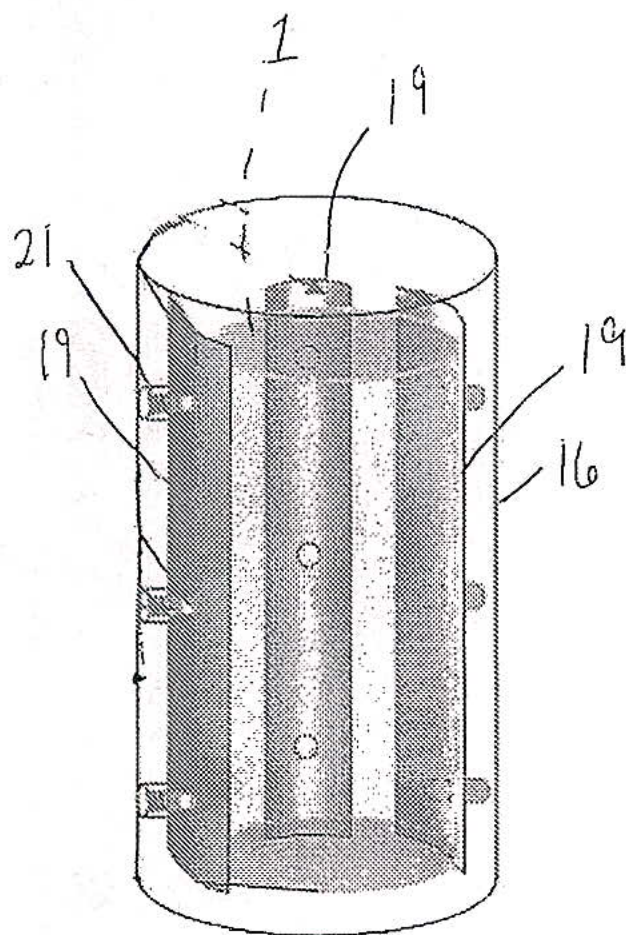


Figure 3

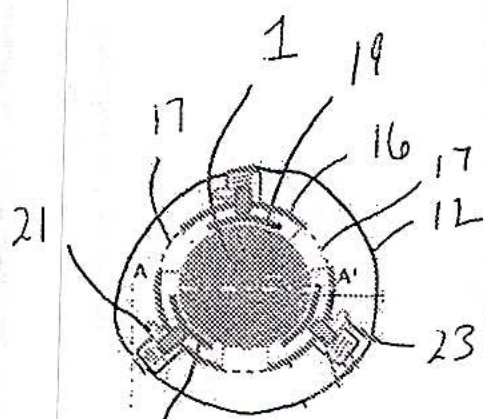


Figure 4

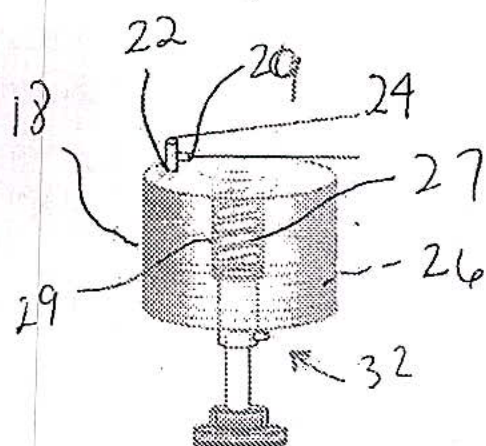


Figure 6

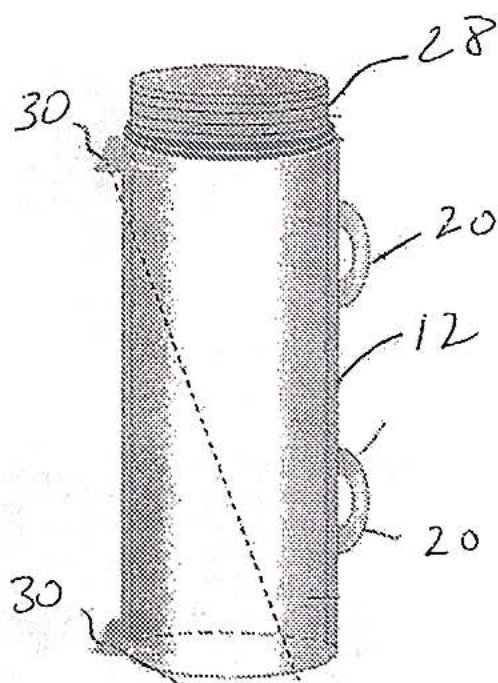


Figure 5

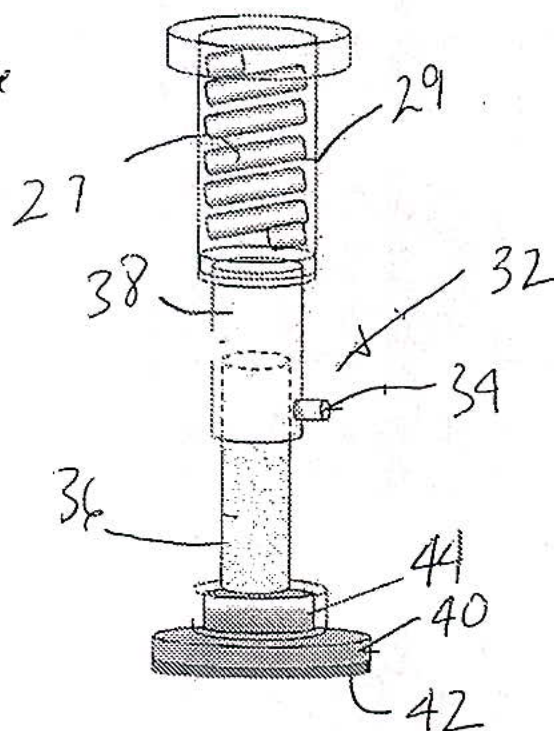


Figure 7

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	08-385
		Application Number	
Title of Invention	HYDROCARBON FORMATION CORE PROTECTION AND TRANSPORTATION APPARATUS		
The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76. This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.			

Secrecy Order 37 CFR 5.2

- ☐ Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)

Applicant Information:

Applicant 1					Remove					
Applicant Authority		☒ Inventor		☐ Legal Representative under 35 U.S.C. 117		☐ Party of Interest under 35 U.S.C. 118				
Prefix	Given Name	Middle Name		Family Name		Suffix				
	Leonardo			Graterol						
Residence Information (Select One)							☐ US Residency	☒ Non US Residency	☐ Active US Military Service	
City	Carrizal		Country Of Residence		VE					
Citizenship under 37 CFR 1.41(b) i		VE								
Mailing Address of Applicant:										
Address 1		Urb. Llano Alto, res. Sausalito, calle 1,								
Address 2		casa 26-1, Estado Miranda,								
City	Carrizal			State/Province						
Postal Code		1203		Country		VE				
Applicant 2										Remove
Applicant Authority		☒ Inventor		☐ Legal Representative under 35 U.S.C. 117		☐ Party of Interest under 35 U.S.C. 118				
Prefix	Given Name	Middle Name		Family Name		Suffix				
	Juan			Ramos						
Residence Information (Select One)							☐ US Residency	☒ Non US Residency	☐ Active US Military Service	
City	San Antonio de Los Altos		Country Of Residence		VE					
Citizenship under 37 CFR 1.41(b) i		VE								
Mailing Address of Applicant:										
Address 1		Calle principal Los Budares, Urb. Los Budares,								
Address 2		Torre A, Apartamento 93-A, Estado Miranda								
City	San Antonio de Los Altos			State/Province						
Postal Code				Country		VE				
Applicant 3										Remove
Applicant Authority		☒ Inventor		☐ Legal Representative under 35 U.S.C. 117		☐ Party of Interest under 35 U.S.C. 118				
Prefix	Given Name	Middle Name		Family Name		Suffix				
	Ricardo			Rojas						
Residence Information (Select One)							☐ US Residency	☒ Non US Residency	☐ Active US Military Service	
City	Highgate		Country Of Residence		AU					

Application Data Sheet 37 CFR 1.76		Attorney Docket Number		08-385	
		Application Number			
Title of Invention		HYDROCARBON FORMATION CORE PROTECTION AND TRANSPORTATION APPARATUS			
Citizenship under 37 CFR 1.41(b) i		VE			
Mailing Address of Applicant:					
Address 1		5/273 Lord Street			
Address 2		Western Australia			
City	Highgate	State/Province			
Postal Code	6003	Countryi	AU		
Applicant 4					Remove
Applicant Authority ☒ Inventor		☐ Legal Representative under 35 U.S.C. 117		☐ Party of Interest under 35 U.S.C. 118	
Prefix	Given Name	Middle Name	Family Name	Suffix	
	Richard		Rengifo		
Residence Information (Select One) ☐ US Residency ☒ Non US Residency ☐ Active US Military Service					
City	Los Teques	Country Of Residencei		VE	
Citizenship under 37 CFR 1.41(b) i		VE			
Mailing Address of Applicant:					
Address 1		Urb. Valle Alto, Calle 1 Norte, Casa 64			
Address 2		Estado Miranda			
City	Los Teques	State/Province			
Postal Code	1201	Countryi	VE		
Applicant 5					Remove
Applicant Authority ☒ Inventor		☐ Legal Representative under 35 U.S.C. 117		☐ Party of Interest under 35 U.S.C. 118	
Prefix	Given Name	Middle Name	Family Name	Suffix	
	George		Quercia		
Residence Information (Select One) ☐ US Residency ☒ Non US Residency ☐ Active US Military Service					
City	Eindhoven	Country Of Residencei		NL	
Citizenship under 37 CFR 1.41(b) i		VE			
Mailing Address of Applicant:					
Address 1		Eindhoven Univ. of Tech., Vertigo Bldg. 6th Fl.			
Address 2		VRT 6.09, P.O. Box 513, 5600 MB			
City	Eindhoven	State/Province			
Postal Code		Countryi	NL		
All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the Add button.					

Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below.
For further information see 37 CFR 1.33(a).

☐ An Address is being provided for the correspondence information of this application.

Customer Number 34704

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	08-385
		Application Number	
Title of Invention	HYDROCARBON FORMATION CORE PROTECTION AND TRANSPORTATION APPARATUS		
Email Address	docket@bachlap.com	Add Email	Remove Email

Application Information:

Title of the Invention	HYDROCARBON FORMATION CORE PROTECTION AND TRANSPORTATION APPARATUS		
Attorney Docket Number	08-385	Small Entity Status Claimed	☐
Application Type	Nonprovisional		
Subject Matter	Utility		
Suggested Class (if any)		Sub Class (if any)	
Suggested Technology Center (if any)			
Total Number of Drawing Sheets (if any)	3	Suggested Figure for Publication (if any)	

Publication Information:

☐ Request Early Publication (Fee required at time of Request 37 CFR 1.219)
☐ Request Not to Publish. I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application has not and will not be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32). Enter either Customer Number or complete the Representative Name section below. If both sections are completed the Customer Number will be used for the Representative Information during processing.			
Please Select One:	☒ Customer Number	☐ US Patent Practitioner	☐ Limited Recognition (37 CFR 11.9)
Customer Number	34704		

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, or 365(c) or indicate National Stage entry from a PCT application. Providing this information in the application data sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78(a)(2) or CFR 1.78(a)(4), and need not otherwise be made part of the specification.			
Prior Application Status		Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the Add button.			Add

Foreign Priority Information:

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	08-385
		Application Number	
Title of Invention	HYDROCARBON FORMATION CORE PROTECTION AND TRANSPORTATION APPARATUS		

This section allows for the applicant to claim benefit of foreign priority and to identify any prior foreign application for which priority is not claimed. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55(a).

			Remove
Application Number	Country ⁱ	Parent Filing Date (YYYY-MM-DD)	Priority Claimed
			☒ Yes ☐ No
Additional Foreign Priority Data may be generated within this form by selecting the Add button.			Add

Assignee Information:

Providing this information in the application data sheet does not substitute for compliance with any requirement of part 3 of Title 37 of the CFR to have an assignment recorded in the Office.

Assignee 1			Remove
If the Assignee is an Organization check here. ☒			
Organization Name	Intevep, S. A.		
Mailing Address Information:			
Address 1	Apartado 76343		
Address 2			
City	Caracas	State/Province	
Country ⁱ	VE	Postal Code	1070A
Phone Number		Fax Number	
Email Address			
Additional Assignee Data may be generated within this form by selecting the Add button.			Add

Signature:

A signature of the applicant or representative is required in accordance with 37 CFR 1.33 and 10.18. Please see 37 CFR 1.4(d) for the form of the signature.

Signature	/george a. coury/		Date (YYYY-MM-DD)	2011-08-12	
First Name	George	Last Name	Coury	Registration Number	34309

This collection of information is required by 37 CFR 1.76. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

TRADUCCIÓN DEL INGLÉS AL ESPAÑOL del documento de prioridad relacionado con la solicitud de Patente de los Estados Unidos No. 13/208,928 titulada:

PROTECCIÓN DE NÚCLEOS DE FORMACIONES DE HIDROCARBUROS Y
APARATO DE TRANSPORTE

ANEXOS. La solicitud de Patente de los Estados Unidos No. 13/208,928 arriba mencionada y Certificación del Comisionado de Patentes y Marcas de los Estados Unidos.

LOS ESTADOS UNIDOS DE AMÉRICA
A TODO AQUEL QUE PUEDA LLEGARLE LA PRESENTE:

DEPARTAMENTO DE COMERCIO DE ESTADOS UNIDOS
Oficina de Marcas y Patentes de Estados Unidos

01 de agosto de 2012

LA PRESENTE CERTIFICA QUE EL ANEXO ES UNA COPIA VERDADERA TOMADA DE LOS ARCHIVOS DE LA OFICINA DE MARCAS Y PATENTES DE LOS ESTADOS UNIDOS DE LOS DOCUMENTOS DE LA SOLICITUD DE PATENTE IDENTIFICADA ABAJO LA CUAL CUMPLIÓ CON LOS REQUERIMIENTOS PARA OTORGÁRSELE UNA FECHA DE PRESENTACIÓN BAJO EL 35 USC 111.

SOLICITUD NÚMERO: 13/208,928
FECHA DE PRESENTACIÓN: Agosto 12, 2011

EL CÓDIGO DEL PAÍS Y EL NÚMERO DE SU SOLICITUD PRIORITARIA A SER UTILIZADO PARA PRESENTACIÓN EN EL EXTRANJERO BAJO LA CONVENCIÓN DE PARÍS ES US13/208,928.

Por autoridad del
Subsecretario de Comercio para la Propiedad Intelectual
y Director de la Oficina de Marcas y Patente de Estados Unidos

(firma)

M. TARVER
Funcionario que Certifica

Hay un sello que dice:
OFICINA DE MARCAS Y PATENTE DE ESTADOS UNIDOS
DEPARTAMENTO DE COMERCIO

Recibo de Recepción Electrónica	
Identificación EFS:	10727879
Número de solicitud:	13208928
Número de Solicitud Internacional:	
Número de Confirmación:	9008
Título de la invención:	PROTECCIÓN DE NÚCLEOS DE FORMACIONES DE HIDROCARBUROS Y APARATO DE TRANSPORTE
Primer Inventor Nombrado/Nombre del Solicitante:	Leonardo Graterol
Número de Cliente:	34704
Persona que Registra:	Gregory P. LaPointe / Eva Kendrick
Persona que Registra Autorizado por:	Gregory P. LaPointe
Numero de Expediente del Abogado:	08-385
Fecha de Recepción:	12 de agosto de 2011
Fecha de Presentación:	
Hora del Sello:	15:51:51
Tipo de Solicitud:	Utilidad bajo el 35 USC 111(a)

Información del Pago:

Presentado con pago	Si
Tipo de pago	Cuenta de depósito
El pago fue recibido satisfactoriamente en RAM	\$1090
Número de confirmación RAM	2334
Cuenta de depósito	020184
Usuario autorizado	

El Director de la USPTO (Oficina de Marcas y Patente de Estados Unidos por sus siglas en inglés) autoriza por la presente a cobrar las tasas indicadas y abonar cualquier pago extra como sigue:

Cobrar cualquier tasa adicional necesaria bajo el 37 C.F.R. Sección 1.16 (Tasas de presentación de solicitud nacional, búsqueda y examen)

Cobrar cualquier tasa adicional necesaria bajo el 37 C.F.R. Sección 1.17 (Tasas de solicitud de patente y proceso de revisión)

Cobrar cualquier tasa adicional necesaria bajo el 37 C.F.R. Sección 1.19 (Tasas de suministro de documentos)

Cobrar cualquier tasa adicional necesaria bajo el 37 C.F.R. Sección 1.20 (Tasas de posterior emisión)

Cobrar cualquier tasa adicional necesaria bajo el 37 C.F.R. Sección 1.21 (Tasas de misceláneos y cargos)

Lista de archivos:					
Número del Documento	Descripción del Documento	Nombre de Archivo	Tamaño del Archivo (Bytes)/ Mensaje	Multipartes/.zip	Páginas (Si aplica)
1	Hoja de datos de la solicitud	08-385_ADS_8-12-11.pdf	1479105	no	5
			(hay un código)		
Advertencias:					
Información:					
2	Dibujos-únicamente en líneas a blanco y negro	08-385_Formal_Drawings_8-12-11.pdf	166396	si	3
			(hay un código)		
Advertencias:					
Información:					
3	Juramento o Declaración presentada	08-385_Executed_Declaration_8-12-11.pdf	75659	No	1
			(hay un código)		
Advertencias:					
Información:					
4	Juramento o Declaración presentada	08-385_Executed_Declaration_8-12-11.pdf	152456	No	2
			(hay un código)		
Advertencias:					
Información:					
5	Juramento o Declaración presentada	08-385_Executed_Declaration_8-12-11.pdf	80479	No	1
			(hay un código)		
Advertencias:					
Información:					
Descripción de las multipartes/Archivos PDF en descripción .zip					
6	Descripción del documento			Comienzo	Final
	Descripción			1	12
	Reivindicaciones			13	16
	Resumen			17	17
Advertencias:					
Información:					
7	Hoja de cálculo de tasas (PTO-875)	fee-info.pdf	33113	no	2
			(hay un código)		
Advertencias:					
Información:					
Total Tamaño de los Archivos (en bytes):				2081166	
Este Recibo de Recepción Electrónica evidencia la radicación en la fecha anotada por la USPTO en los documentos indicados, caracterizados por el solicitante, e incluyen computo de páginas, donde aplica.					

Es útil como evidencia de recepción similar a una Tarjeta Postal, como se describe en MPEP 503.

Nuevas Solicitudes bajo el 35 U.S.C. 111

Si se presenta una nueva solicitud y esta incluye los componentes necesarios para una fecha de presentación (ver el 37 CFR 1.53(b)-(d) y MPEP 506), se emitirá un Recibo de Presentación (37 CFR 1.54) en su debido momento y la fecha mostrada en este Recibo de Recepción determinará la fecha de presentación de la solicitud.

Fase Nacional de una Solicitud Internacional bajo el 35 U.S.C. 371

Si una solicitud internacional que se presenta oportunamente para entrar en fase nacional cumple con las condiciones de 35 U.S.C. 371 y otros requerimientos que apliquen, se emitirá la Forma PCT/DO/EO/903 indicando la aceptación de la solicitud como presentación en fase nacional bajo 35 U.S.C. 371 además del Recibo de Presentación en su debido momento.

Nueva Solicitud Internacional presentada ante la USPTO como Oficina Receptora

Si se presenta una solicitud internacional nueva y esta incluye los componentes necesarios para una fecha de presentación internacional (ver Artículo 11 del PCT y MPEP 1810), se emitirá una Notificación del Número de Solicitud Internacional y de la Fecha de Presentación Internacional (Forma PCT/RO/105) en su debido momento, sujeto a las prescripciones con respecto a seguridad nacional, y la fecha presentada en este Recibo de Recepción determinará la fecha de presentación internacional de la solicitud.

REIVINDICACIONES

1. Un aparato para transportar muestras de núcleos, aparato que se compone de:

un tubo exterior que tiene un extremo abierto y una tapa montada en forma desmontable al extremo abierto;

un tubo de núcleo deslizable dentro y fuera del tubo exterior cuando se quita la tapa del tubo exterior; y

una estructura estabilizadora entre el tubo de núcleo y el tubo exterior, soportando la estructura estabilizadora el tubo de núcleo dentro del tubo exterior, con el tubo de núcleo separado de contacto con una pared interior del tubo exterior.

2. El aparato de la reivindicación 1, en donde el tubo exterior tiene por lo menos una manija para transportar el aparato manualmente.

3. El aparato de la reivindicación 1, en donde el tubo exterior y la tapa definen un espacio interior del aparato que se sella herméticamente cuando la tapa está en posición sobre el tubo exterior.

4. El aparato de la reivindicación 1, en donde el tubo de núcleo tiene por lo menos un boquete.

5. El aparato de la reivindicación 4, en donde el boquete atraviesa la pared lateral del tubo de núcleo.

6. El aparato de la reivindicación 1, en donde el tubo de núcleo tiene una superficie de borde curvado hacia abajo.

7. El aparato de la reivindicación 1, en donde la estructura estabilizadora incluye por lo menos 3 platinas longitudinales distanciadas radialmente.

8. El aparato de la reivindicación 7, en donde las por lo menos tres platinas longitudinales distanciadas radialmente están montadas sobre resortes a una superficie interior del tubo de núcleo.
9. El aparato de la reivindicación 8, en donde las por lo menos tres platinas longitudinales distanciadas radialmente están montadas sobre resortes al tubo de núcleo mediante pistones accionados por resortes ajustables.
10. El aparato de la reivindicación 1, en donde la estructura estabilizadora incluye por lo menos un resorte posicionado axialmente entre una muestra de un núcleo contenido en el tubo de núcleo y por lo menos uno de un fondo del tubo exterior y la tapa.
11. El aparato de la reivindicación 1, en donde el por lo menos un resorte posicionado axialmente incluye un resorte montado en un ensamble de tubo concéntrico telescópico.
12. El aparato de la reivindicación 11, en donde el ensamble de tubo concéntrico telescópico se monta dentro de la tapa.
13. El aparato de la reivindicación 12, que incluye además un soporte de muestra de núcleo en un extremo de la muestra de núcleo del ensamble de tubo concéntrico ajustable, en donde el soporte de muestra de núcleo es giratorio en relación con el ensamble de tubo telescópico.
14. El aparato de la reivindicación 1, que incluye además un tapón de entrada de aceite para sellar en forma desmontable la entrada de aceite, posicionándose la entrada de aceite en uno del tubo exterior y la tapa para introducir fluidos y presión en el tubo exterior.

15. El aparato de la reivindicación 1, que incluye además estructuras estabilizadoras que se proyectan desde el tubo exterior.
16. El aparato de la reivindicación 15, en donde las estructuras estabilizadoras definen superficies sustancialmente planas para apoyar el aparato en una posición horizontal.
17. El aparato de la reivindicación 16, en donde el tubo exterior tiene por lo menos una manija para transportar el aparato, proyectándose la manija de un lado del tubo exterior, y en donde las estructuras estabilizadoras se proyectan de un lado opuesto del tubo exterior.
18. Un método para transportar una muestra de núcleo, método que comprende los pasos de:
 - obtener una muestra de un núcleo de una formación subterránea;
 - poner la muestra de núcleo en un tubo de núcleo;
 - insertar el tubo de núcleo a través de un extremo abierto de un tubo exterior en el tubo exterior, hallándose una estructura estabilizadora entre el tubo de núcleo y el tubo exterior y entre la muestra de núcleo y el tubo interior;
 - colocar una tapa sobre el extremo abierto del tubo exterior;
 - introducir un fluido a través de una entrada de fluido en la tapa y en el espacio interior definido por el tubo exterior;
 - sellar la entrada de fluido de modo que se selle herméticamente el espacio interior del tubo exterior; y
 - transportar el tubo exterior a una localización deseada.

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	Número de Solicitud	
Título de la Invención	PROTECCIÓN DE NÚCLEOS DE FORMACIONES DE HIDROCARBUROS Y APARATO DE TRANSPORTE	
La hoja de datos de la solicitud es parte de la solicitud provisional o no provisional para la cual se está presentando. El siguiente formato contiene los datos bibliográficos organizados en un formato determinado por la Oficina de Marcas y Patentes de los Estados Unidos tal como se esquematizó en CFR 1.76. Este documento puede ser diligenciado de manera electrónica y entregado a la Oficina en formato electrónico utilizando el Sistema de Presentación Electrónica (EFS por sus siglas en inglés) o el documento puede ser impreso e incluido en una solicitud presentada en papel.		

Orden de Reserva 37 CFR 5.2

☐ Partes o toda la solicitud relacionada con esta Hoja de Datos de la Solicitud puede estar incluida bajo una Orden de Reserva de conformidad con el 37 CFR 5.2 (Únicamente para declarantes en papel. Las solicitudes que estén incluidas dentro de la Orden de Reserva no pueden ser presentadas de manera electrónica).

Información del solicitante

Solicitante 1				
Autoridad del Solicitante		☐ Representante legal bajo el 35 U.S.C 117		☐ Parte de interés bajo el 35 U.S.C. 118
☒ Inventor				
Prefijo	Nombre	Segundo Nombre	Apellido	Sufijo
	Leonardo		Graterol	
Información de residencia (seleccione una)				
☐ Residencia de US ☒ Sin residencia de US ☐ Servicio militar de los US activo				
Ciudad	Carrizal	País de Residencia		VE
Ciudadanía bajo el 37 CFR 1.41(b)		VE		
Dirección de correspondencia del solicitante:				
Dirección 1		Urb. Llano Alto, Res. Sausalito, Calle 1		
Dirección 2		Casa 26-1, Estado Miranda		
Ciudad	Carrizal	Estado/Provincia		
Código postal	1203	País	VE	
Solicitante 2				
Autoridad del Solicitante		☐ Representante legal bajo el 35 U.S.C 117		☐ Parte de interés bajo el 35 U.S.C. 118
☒ Inventor				
Prefijo	Nombre	Segundo Nombre	Apellido	Sufijo
	Juan		Ramos	
Información de residencia (seleccione una)				
☐ Residencia de US ☒ Sin residencia de US ☐ Servicio militar de los US activo				
Ciudad	San Antonio de los Altos	País de Residencia		VE
Ciudadanía bajo el 37 CFR 1.41(b)		VE		
Dirección de correspondencia del solicitante:				
Dirección 1		Calle principal Los Budares, Urbanización Los Budares		
Dirección 2		Torre A, Apartamento 93-A, Estado Miranda		
Ciudad	San Antonio de los Altos	Estado/Provincia		
Código postal		País	VE	
Solicitante 3				
Autoridad del Solicitante		☐ Representante legal bajo el 35 U.S.C 117		☐ Parte de interés bajo el 35 U.S.C. 118
☒ Inventor				
Prefijo	Nombre	Segundo Nombre	Apellido	Sufijo
	Ricardo		Rojas	
Información de residencia (seleccione una)				
☐ Residencia de US ☒ Sin residencia de US ☐ Servicio militar de los US activo				
Ciudad	Highgate	País de Residencia		AU

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		Número de Solicitud			
Título de la Invención		PROTECCIÓN DE NÚCLEOS DE FORMACIONES DE HIDROCARBUROS Y APARATO DE TRANSPORTE			
Ciudadanía bajo el 37 CFR 1.41(b)		VE			
Dirección de correspondencia del solicitante:					
Dirección 1		5/273, Lord Street			
Dirección 2		Western Australia			
Ciudad	Highgate	Estado/Provincia			
Código postal	6003	País		AU	
Solicitante 4					
Autoridad del Solicitante ☒ Inventor		☐ Representante legal bajo el 35 U.S.C 117		☐ Parte de interés bajo el 35 U.S.C. 118	
Prefijo	Nombre	Segundo Nombre		Apellido	Sufijo
	Richard			Rengifo	
Información de residencia (seleccione una) ☐ Residencia de US ☒ Sin residencia de US ☐ Servicio militar de los US activo					
Ciudad	Los Teques	País de Residencia		VE	
Ciudadanía bajo el 37 CFR 1.41(b)		VE			
Dirección de correspondencia del solicitante:					
Dirección 1		Urb. Valle Alto, Calle 1 Norte, Casa 64			
Dirección 2		Estado Miranda			
Ciudad	Los Teques	Estado/Provincia			
Código postal	1201	País		VE	
Solicitante 5					
Autoridad del Solicitante ☒ Inventor		☐ Representante legal bajo el 35 U.S.C 117		☐ Parte de interés bajo el 35 U.S.C. 118	
Prefijo	Nombre	Segundo Nombre		Apellido	Sufijo
	George			Quercia	
Información de residencia (seleccione una) ☐ Residencia de US ☒ Sin residencia de US ☐ Servicio militar de los US activo					
Ciudad	Eindhoven	País de Residencia		NL	
Ciudadanía bajo el 37 CFR 1.41(b)		VE			
Dirección de correspondencia del solicitante:					
Dirección 1		Eindhoven University of Technology, Vertigo Building, 6 th Floor			
Dirección 2		VRT 6.09, P.O. Box 513, 5600 MB			
Ciudad	Eindhoven	Estado/Provincia			
Código postal		País		NL	
Se deben incluir todos los inventores – Las casillas para información adicional del inventor se pueden generar dentro de este formato seleccionando el botón Agregar Agregar					

Información de correspondencia:	
Se puede ingresar el Número de Cliente o completar la sección de Información de correspondencia a continuación. Para información adicional ver el 37 CFR 1.33(a)	
☐ Se suministra una dirección para la información de correspondencia de esta solicitud	
Número de cliente	34704

Hoja de Datos de la Solicitud 37 CFR 1.76		Número de Expediente de Abogado	08-385
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Título de la Invención		PROTECCIÓN DE NÚCLEOS DE FORMACIONES DE HIDROCARBUROS Y APARATO DE TRANSPORTE	
Dirección de correo electrónico	docket@bachlap.com	Ingresar C.E.	Retirar C.E.

Información de la solicitud:

Título de la invención	PROTECCIÓN DE NÚCLEOS DE FORMACIONES DE HIDROCARBUROS Y APARATO DE TRANSPORTE		
Número de expediente de abogado	10-358	Se reclama estatus de pequeña empresa ☐	
Tipo de solicitud	No provisional		
Materia objeto	Utilidad		
Clase sugerida (si aplica)		Subclase (si aplica)	
Centro de tecnología sugerido (si aplica)			
Número Total de hojas de dibujos (si aplica)	3	Figura sugerida para la publicación (si aplica)	

Información de la Publicación:

☐ Solicitud de publicación temprana (Se requiere el pago de la tasa al momento que la Solicitud 37 CFR 1.219)
☐ Solicitud de no publicación. Por la presente solicito que la solicitud adjunta no sea publicada bajo el 35 U.S.C. 122(b) y certifico que la invención divulgada en la solicitud adjunta no ha sido y no será objeto de una solicitud presentada en otro país o bajo un acuerdo internacional multilateral que requiera la publicación a los 18 meses después de su presentación.

Información del Representante:

La información del representante debe ser suministrada para todos los abogados que tengan poder de abogado en la solicitud. Suministrar esta información en la Hoja de Datos de la Solicitud no constituye un poder de abogado en la solicitud (ver 37 CFR 1.32). Se puede ingresar el Número de Cliente o completar la sección de Nombre del Representante a continuación. Si se completan las dos secciones, el Número de Cliente será utilizado para la Información del Representante durante el trámite.			
Por favor seleccione uno:	☒ Número de Cliente	☐ Abogado de patentes de US	☐ Reconocimiento limitado (37 CFR 11.9)
Número de cliente	34704		

Beneficios locales/ Información Fase Nacional

Esta sección permite al solicitante ya sea reclamar el beneficio bajo el 35 U.S.C 119(e), 120, 121 ó 365(c) o indicar la entrada en Fase Nacional de una solicitud PCT. Suministrar esta información en la Hoja de Datos de la Solicitud constituye la referencia específica requerida por el 35 U.S.C 119(e) ó 120 y 37 CFR 1.78(a)(2) ó CFR 1.78(a)(4) y no necesita por lo demás ser parte de la descripción.			
Estado solicitud anterior			Retirar
Número de solicitud	Tipo de continuación	Número de solicitud anterior	Fecha de presentación (yyyy/mm/dd)
Los datos de Beneficios locales/Fase Nacional adicionales pueden ser generados dentro de este formato seleccionando el botón Agregar .			

Información sobre Prioridad Extranjera

Hoja de Datos de la Solicitud 37 CFR 1.76		Número de Expediente de Abogado	08-385
		Número de Solicitud	
Título de la Invención		PROTECCIÓN DE NÚCLEOS DE FORMACIONES DE HIDROCARBUROS Y APARATO DE TRANSPORTE	
Esta sección permite al solicitante reclamar beneficio de prioridad extranjera e identificar cualquier solicitud extranjera anterior cuya prioridad no está reclamada. Suministrar esta información en la Hoja de Datos de la Solicitud constituye el reclamar prioridad como se requiere en el 35 U.S.C. 119(b) y 37 CFR 1.55(a).			
Retirar			
Número de Solicitud	País	Fecha de presentación padre (yyyy/mm/dd)	Prioridad reivindicada
			☒ Si ☐ No
Los datos de prioridad extranjera adicional pueden ser generado dentro de este formato seleccionando el botón Agregar			

Información del Cesionario:

Suministrar esta información en la Hoja de Datos de la Solicitud no sustituye el cumplimiento de cualquier requisito de la parte 3 del Título 37 del CFR de tener una cesión registrada en la Oficina.

Cesionario 1

Si el cesionario es una Organización marque aquí ☒

Nombre de la Organización Intevp. S.A.

Información sobre dirección de correspondencia:

Dirección 1 Apartado 76343

Dirección 2

Ciudad	Caracas	Estado/Provincia	
País	VE	Código postal	1070A
Número de teléfono		Número de facsímile	
Dirección de correo electrónico			

Se pueden generar datos adicionales del cesionario dentro de este formato seleccionado el botón **Agregar**

Firma

Se requiere la firma del solicitante o representante de conformidad con el 37 CFR 1.33 y 10.18. Por favor ver el 37 CFR 1.4(d) para el formato de firma.

Firma	(firma)	Fecha (AAAA-MM-DD)	2011-08-12
Primer Nombre	George	Apellido	Coury
		Número de Registro	34309