

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT																
NATURE OF CONVEYANCE:	ASSIGNMENT																
CONVEYING PARTY DATA																	
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Xueying XIE</td> <td>12/11/2009</td> </tr> <tr> <td>Olurpop Rufus AYODELE</td> <td>12/10/2009</td> </tr> <tr> <td>Harold J VINEGAR</td> <td>01/08/2010</td> </tr> <tr> <td>Christopher Kelvin HARRIS</td> <td>02/26/2010</td> </tr> <tr> <td>John Michael KARANIKAS</td> <td>01/06/2010</td> </tr> <tr> <td>Chester Ledlie SANDBERG</td> <td>02/23/2010</td> </tr> <tr> <td>Dhruv ARORA</td> <td>01/12/2010</td> </tr> </tbody> </table>		Name	Execution Date	Xueying XIE	12/11/2009	Olurpop Rufus AYODELE	12/10/2009	Harold J VINEGAR	01/08/2010	Christopher Kelvin HARRIS	02/26/2010	John Michael KARANIKAS	01/06/2010	Chester Ledlie SANDBERG	02/23/2010	Dhruv ARORA	01/12/2010
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Name:</td> <td>Shell Oil Company</td> </tr> <tr> <td>Street Address:</td> <td>P.O. Box 2463</td> </tr> <tr> <td>Internal Address:</td> <td>Intellectual Property</td> </tr> <tr> <td>City:</td> <td>HOUSTON</td> </tr> <tr> <td>State/Country:</td> <td>TEXAS</td> </tr> <tr> <td>Postal Code:</td> <td>77252-2463</td> </tr> </table>		Name:	Shell Oil Company	Street Address:	P.O. Box 2463	Internal Address:	Intellectual Property	City:	HOUSTON	State/Country:	TEXAS	Postal Code:	77252-2463				
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CORRESPONDENCE DATA																	
<p>Fax Number: (713)241-6617</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Email: ana.almaguer@shell.com</p> <p>Correspondent Name: Shell Oil Company</p> <p>Address Line 1: P.O. Box 2463</p> <p>Address Line 2: Intellectual Property</p> <p>Address Line 4: HOUSTON, TEXAS 77252-2463</p>																	
ATTORNEY DOCKET NUMBER:	TH3922 (US)																

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PATENT

NAME OF SUBMITTER:

Ana M. Almaguer

Total Attachments: 21

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DECLARATION under 37 CFR 1.63 AND POWER OF ATTORNEY FOR PATENT APPLICATIONATTORNEY'S DOCKET NO
TH3922(US)

I hereby declare that:

Each inventor's residence, mailing address, and citizenship are as stated below next to their name

I believe the inventor(s) named below to be the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought on the invention entitled: **PERFORATED ELECTRICAL CONDUCTORS FOR TREATING SUBSURFACE FORMATIONS** the specification of which is attached hereto unless the following box is checked:

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PRIOR FOREIGN APPLICATION (S)				Priority Not Claimed
APPLICATION NUMBER	COUNTRY	DAY/MONTH/YEAR FILED	CERTIFIED COPY ATTACHED YES <input type="checkbox"/> NO <input type="checkbox"/>	<input type="checkbox"/>
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APPLICATION SERIAL NO	FILING DATE
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I hereby appoint:

Practitioners associated with the Customer Number:

23632

OR

Practitioner(s) named below:

NAME	ATTORNEY/AGENT	REGISTRATION NUMBER	TELEPHONE NUMBER
Del S. Christensen	Attorney	33,482	(713) 241-3997
NAME	ATTORNEY/AGENT	REGISTRATION NUMBER	TELEPHONE NUMBER
Richard F. Lemuth	Attorney	30,081	(713) 241-3716

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

SEND CORRESPONDENCE TO:

(Name) Del S. Christensen
c/o Shell Oil Company
Intellectual Property
P.O. Box 2463
Houston, TX 77252-2463

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FULL NAME OF SOLE OR FIRST INVENTOR (given name, family name)	
Xueying XIE	
INVENTOR'S SIGNATURE <i>Xueying Xie</i>	DATE SIGNED Dec 11, 2009
RESIDENCE 2727 West 18th St, 328, Houston, Texas 77008 USA	CITIZENSHIP P. R. China
POST OFFICE ADDRESS 2727 West 18th St, 328, Houston, Texas 77008 USA 14438 Basalt Ln. Houston TX, 77077 USA	

FULL NAME OF SECOND JOINT INVENTOR, IF ANY (given name, family name)	
Oluropo Rufus AYODELE	
SECOND INVENTOR'S SIGNATURE	DATE SIGNED
RESIDENCE 25102 Diamond Ranch Drive, Katy, Texas 77494 USA	CITIZENSHIP Canada
POST OFFICE ADDRESS 25102 Diamond Ranch Drive, Katy, Texas 77494 USA	

FULL NAME OF SECOND JOINT INVENTOR, IF ANY (given name, family name)	
Harold J. VINEGAR	
SECOND INVENTOR'S SIGNATURE	DATE SIGNED
RESIDENCE 4613 Laurel, Bellaire, TX 77401, USA	CITIZENSHIP USA
POST OFFICE ADDRESS 4613 Laurel, Bellaire, TX 77401, USA	

FULL NAME OF SECOND JOINT INVENTOR, IF ANY (given name, family name)	
Christopher Kelvin HARRIS	
SECOND INVENTOR'S SIGNATURE	DATE SIGNED
RESIDENCE 2 Varbay Place NW, Calgary AB T3A 0C8, Canada	CITIZENSHIP Great Britain
POST OFFICE ADDRESS 2 Varbay Place NW, Calgary AB T3A 0C8, Canada	

FULL NAME OF SECOND JOINT INVENTOR, IF ANY (given name, family name)	
John Michael KARANIKAS	
SECOND INVENTOR'S SIGNATURE	DATE SIGNED
RESIDENCE 1005A Crocker St. Houston, Texas 77019 USA	CITIZENSHIP Greece
POST OFFICE ADDRESS 1005A Crocker St. Houston, Texas 77019 USA	

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FULL NAME OF SECOND JOINT INVENTOR, IF ANY (given name, family name)

Chester Ledlie SANDBERG

SECOND INVENTOR'S SIGNATURE

DATE SIGNED

RESIDENCE

758 Torrey Ct, Palo Alto, California 94303 USA

CITIZENSHIP

USA

POST OFFICE ADDRESS

758 Torrey Ct, Palo Alto, California 94303 USA

FULL NAME OF SECOND JOINT INVENTOR, IF ANY (given name, family name)

Dhruv ARORA

SECOND INVENTOR'S SIGNATURE

DATE SIGNED

RESIDENCE

7675 Phoenix Drive, Apt. 836, Houston, Texas 77030 USA

CITIZENSHIP

India

POST OFFICE ADDRESS

7675 Phoenix Drive, Apt. 836, Houston, Texas 77030 USA
PATENT
REEL: 024015 FRAME: 0745

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NAME	ATTORNEY/AGENT	REGISTRATION NUMBER	TELEPHONE NUMBER
Richard F. Lemuth	Attorney	30,081	(713) 241-3716

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Houston, TX 77252-2463

**DECLARATION under 37 CFR 1.63 AND POWER OF
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Xueying XIE	
INVENTOR'S SIGNATURE	DATE SIGNED
RESIDENCE	CITIZENSHIP
2727 West 18th St. 328, Houston, Texas 77008 USA	P. R. China
POST OFFICE ADDRESS	
2727 West 18th St. 328, Houston, Texas 77008 USA	

FULL NAME OF SECOND JOINT INVENTOR, IF ANY (given name, family name)	
Oluropo Rufus AYODELE	
SECOND INVENTOR'S SIGNATURE	DATE SIGNED
	December 10, 2009
RESIDENCE	CITIZENSHIP
25102 Diamond Ranch Drive, Katy, Texas 77494 USA	Canada
POST OFFICE ADDRESS	
25102 Diamond Ranch Drive, Katy, Texas 77494 USA	

FULL NAME OF SECOND JOINT INVENTOR, IF ANY (given name, family name)	
Harold J. VINEGAR	
SECOND INVENTOR'S SIGNATURE	DATE SIGNED
RESIDENCE	CITIZENSHIP
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POST OFFICE ADDRESS 758 Torrey Ct, Palo Alto, California 94303 USA	

FULL NAME OF SECOND JOINT INVENTOR, IF ANY (given name, family name) Dhruv ARORA	
SECOND INVENTOR'S SIGNATURE	DATE SIGNED
RESIDENCE 7675 Phoenix Drive, Apt. 836, Houston, Texas 77030 USA	CITIZENSHIP India
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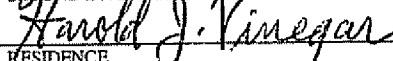
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**1/8/10**

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USA

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CITIZENSHIP

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CITIZENSHIP

Greece

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 Priority
Not Claimed

APPLICATION NUMBER	COUNTRY	DAY/MONTH/YEAR FILED	CERTIFIED COPY ATTACHED YES <input type="checkbox"/> NO <input type="checkbox"/>	<input type="checkbox"/>
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I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below.

APPLICATION SERIAL NO. <u>61/104,974</u>	FILING DATE <u>October 13, 2008</u>
APPLICATION SERIAL NO. <u>61/168,498</u>	FILING DATE <u>April 10, 2009</u>

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I hereby appoint:

Practitioners associated with the Customer Number:

23632

OR

Practitioner(s) named below:

NAME	ATTORNEY/AGENT	REGISTRATION NUMBER	TELEPHONE NUMBER
Del S. Christensen	Attorney	33,482	(713) 241-3997
NAME	ATTORNEY/AGENT	REGISTRATION NUMBER	TELEPHONE NUMBER
Richard F. Lemuth	Attorney	30,081	(713) 241-3716

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

SEND CORRESPONDENCE TO:

 (Name) Del S. Christensen
c/o Shell Oil Company
Intellectual Property
P.O. Box 2463
Houston, TX 77252-2463

**DECLARATION under 37 CFR 1.63 AND POWER OF
ATTORNEY FOR PATENT APPLICATION**

 ATTORNEY'S DOCKET NO.
TH3922(US)

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FULL NAME OF SOLE OR FIRST INVENTOR (given name, family name)	
Xueying XIE	
INVENTOR'S SIGNATURE	DATE SIGNED
RESIDENCE	CITIZENSHIP
2727 West 18th St. 328, Houston, Texas 77008 USA	P. R. China
POST OFFICE ADDRESS	
2727 West 18th St. 328, Houston, Texas 77008 USA	

FULL NAME OF SECOND JOINT INVENTOR, IF ANY (given name, family name)	
Oluropo Rufus AYODELE	
SECOND INVENTOR'S SIGNATURE	DATE SIGNED
RESIDENCE	CITIZENSHIP
25102 Diamond Ranch Drive, Katy, Texas 77494 USA	Canada
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Harold J. VINEGAR	
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FULL NAME OF SECOND JOINT INVENTOR, IF ANY (given name, family name)	
Christopher Kelvin HARRIS	
SECOND INVENTOR'S SIGNATURE	DATE SIGNED
<i>Christopher K Harris</i>	26 Feb 2010
RESIDENCE	CITIZENSHIP
2 Varbay Place NW, Calgary AB T3A 0C8, Canada	Great Britain
POST OFFICE ADDRESS	
2 Varbay Place NW, Calgary AB T3A 0C8, Canada	

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John Michael KARANIKAS	
SECOND INVENTOR'S SIGNATURE	DATE SIGNED
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Chester Ledlie SANDBERG	
SECOND INVENTOR'S SIGNATURE	DATE SIGNED
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758 Torrey Ct, Palo Alto, California 94303 USA	
CITIZENSHIP	
USA	
POST OFFICE ADDRESS	
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FULL NAME OF SECOND JOINT INVENTOR, IF ANY (given name, family name)	
Dhruv ARORA	
SECOND INVENTOR'S SIGNATURE	DATE SIGNED
RESIDENCE	
7675 Phoenix Drive, Apt. 836, Houston, Texas 77030 USA	
CITIZENSHIP	
India	
POST OFFICE ADDRESS	
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Xueying XIE	
INVENTOR'S SIGNATURE	DATE SIGNED
RESIDENCE	CITIZENSHIP
2727 West 18th St. 328, Houston, Texas 77008 USA	P. R. China
POST OFFICE ADDRESS	
2727 West 18th St. 328, Houston, Texas 77008 USA	

FULL NAME OF SECOND JOINT INVENTOR, IF ANY (given name, family name)	
Olurupo Rufus AYODELE	
SECOND INVENTOR'S SIGNATURE	DATE SIGNED
RESIDENCE	CITIZENSHIP
25102 Diamond Ranch Drive, Katy, Texas 77494 USA	Canada
POST OFFICE ADDRESS	
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Christopher Kelvin HARRIS	
SECOND INVENTOR'S SIGNATURE	DATE SIGNED
RESIDENCE	CITIZENSHIP
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POST OFFICE ADDRESS	
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FULL NAME OF SECOND JOINT INVENTOR, IF ANY (given name, family name)	
John Michael KARANIKAS	
SECOND INVENTOR'S SIGNATURE	DATE SIGNED
<i>John Michael Karanikas</i>	January 6, 2010
RESIDENCE	CITIZENSHIP
1005A Crocker St. Houston, Texas 77019 USA	Greece
POST OFFICE ADDRESS	
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FULL NAME OF SECOND JOINT INVENTOR, IF ANY (given name, family name) Chester Ledlie SANDBERG	
SECOND INVENTOR'S SIGNATURE	DATE SIGNED
RESIDENCE 758 Torreya Ct, Palo Alto, California 94303 USA	CITIZENSHIP USA
POST OFFICE ADDRESS 758 Torreya Ct, Palo Alto, California 94303 USA	

FULL NAME OF SECOND JOINT INVENTOR, IF ANY (given name, family name) Dhruv ARORA	
SECOND INVENTOR'S SIGNATURE	DATE SIGNED
RESIDENCE 7675 Phoenix Drive, Apt. 836, Houston, Texas 77030 USA	CITIZENSHIP India
POST OFFICE ADDRESS 7675 Phoenix Drive, Apt. 836, Houston, Texas 77030 USA	

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Xueying XIE	
INVENTOR'S SIGNATURE	DATE SIGNED
RESIDENCE	CITIZENSHIP
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POST OFFICE ADDRESS	
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Oluropo Rufus AYODELE	
SECOND INVENTOR'S SIGNATURE	DATE SIGNED
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SECOND INVENTOR'S SIGNATURE	DATE SIGNED
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FULL NAME OF SECOND JOINT INVENTOR, IF ANY (given name, family name)

Chester Ledlie SANDBERG

2-23-2010

SECOND INVENTOR'S SIGNATURE

DATE SIGNED

RESIDENCE

758 Torreya Ct, Palo Alto, California 94303 USA

CITIZENSHIP

USA

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Dhruv ARORA

SECOND INVENTOR'S SIGNATURE

DATE SIGNED

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SECOND INVENTOR'S SIGNATURE <i>[Signature]</i>	DATE SIGNED
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POST OFFICE ADDRESS 758 Torreya Ct, Palo Alto, California 94303 USA	

FULL NAME OF SECOND JOINT INVENTOR, IF ANY (given name, family name) Dhruv ARORA	
SECOND INVENTOR'S SIGNATURE <i>[Signature: Dhruv Arora]</i>	DATE SIGNED Jan, 12, 2010
RESIDENCE 7675 Phoenix Drive, Apt. 836, Houston, Texas 77030 USA	CITIZENSHIP India
POST OFFICE ADDRESS 7675 Phoenix Drive, Apt. 836, Houston, Texas 77030 USA	

PATENT**RECORDED: 03/02/2010****REEL: 024015 FRAME: 0763**