

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT2664696

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>ERHAN BAS</td> <td>12/16/2013</td> </tr> <tr> <td>ALI CAN</td> <td>12/16/2013</td> </tr> <tr> <td>JENS RITTSCHER</td> <td>12/19/2013</td> </tr> <tr> <td>WEINA GE</td> <td>12/16/2013</td> </tr> <tr> <td>KELLY E. WROBEL</td> <td>12/16/2013</td> </tr> <tr> <td>MATTHIAS G. IMHOF</td> <td>12/17/2013</td> </tr> <tr> <td>LESLIE A. WAHRMUND</td> <td>12/17/2013</td> </tr> <tr> <td>GIANNI MATTEUCCI</td> <td>12/16/2013</td> </tr> <tr> <td>ANTONIO RAFAEL DA COSTA PAIVA</td> <td>12/17/2013</td> </tr> </tbody> </table>		Name	Execution Date	ERHAN BAS	12/16/2013	ALI CAN	12/16/2013	JENS RITTSCHER	12/19/2013	WEINA GE	12/16/2013	KELLY E. WROBEL	12/16/2013	MATTHIAS G. IMHOF	12/17/2013	LESLIE A. WAHRMUND	12/17/2013	GIANNI MATTEUCCI	12/16/2013	ANTONIO RAFAEL DA COSTA PAIVA	12/17/2013
Name	Execution Date																				
ERHAN BAS	12/16/2013																				
ALI CAN	12/16/2013																				
JENS RITTSCHER	12/19/2013																				
WEINA GE	12/16/2013																				
KELLY E. WROBEL	12/16/2013																				
MATTHIAS G. IMHOF	12/17/2013																				
LESLIE A. WAHRMUND	12/17/2013																				
GIANNI MATTEUCCI	12/16/2013																				
ANTONIO RAFAEL DA COSTA PAIVA	12/17/2013																				
RECEIVING PARTY DATA																					
<table border="1"> <tr> <td>Name:</td> <td>GENERAL ELECTRIC COMPANY</td> </tr> <tr> <td>Street Address:</td> <td>1 RIVER ROAD</td> </tr> <tr> <td>City:</td> <td>SCHENECTADY</td> </tr> <tr> <td>State/Country:</td> <td>NEW YORK</td> </tr> <tr> <td>Postal Code:</td> <td>12345</td> </tr> </table>		Name:	GENERAL ELECTRIC COMPANY	Street Address:	1 RIVER ROAD	City:	SCHENECTADY	State/Country:	NEW YORK	Postal Code:	12345										
Name:	GENERAL ELECTRIC COMPANY																				
Street Address:	1 RIVER ROAD																				
City:	SCHENECTADY																				
State/Country:	NEW YORK																				
Postal Code:	12345																				
<table border="1"> <tr> <td>Name:</td> <td>EXXONMOBIL UPSTREAM RESEARCH COMPANY</td> </tr> <tr> <td>Street Address:</td> <td>3120 BUFFALO SPEEDWAY</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>77098</td> </tr> </table>		Name:	EXXONMOBIL UPSTREAM RESEARCH COMPANY	Street Address:	3120 BUFFALO SPEEDWAY	City:	HOUSTON	State/Country:	TEXAS	Postal Code:	77098										
Name:	EXXONMOBIL UPSTREAM RESEARCH COMPANY																				
Street Address:	3120 BUFFALO SPEEDWAY																				
City:	HOUSTON																				
State/Country:	TEXAS																				
Postal Code:	77098																				
PROPERTY NUMBERS Total: 1																					
<table border="1"> <tr> <th>Property Type</th> <th>Number</th> </tr> <tr> <td>Application Number:</td> <td>14145099</td> </tr> </table>		Property Type	Number	Application Number:	14145099																
Property Type	Number																				
Application Number:	14145099																				
CORRESPONDENCE DATA																					

Fax Number: (281)970-4503  
Phone: 2819704545  
Email: rariden@fyiplaw.com  
*Correspondence will be sent via US Mail when the email attempt is unsuccessful.*  
Correspondent Name: FLETCHER YODER C/O JOHN M. RARIDEN  
Address Line 1: PO BOX 692289  
Address Line 4: HOUSTON, TEXAS 77269-2289

NAME OF SUBMITTER:	JOHN M. RARIDEN
--------------------	-----------------

Signature:	/ John Rariden /
------------	------------------

Date:	01/02/2014
-------	------------

**Total Attachments: 11**

source=268159-2\_2013EM051\_Assignment\_02JAN2014#page1.tif  
source=268159-2\_2013EM051\_Assignment\_02JAN2014#page2.tif  
source=268159-2\_2013EM051\_Assignment\_02JAN2014#page3.tif  
source=268159-2\_2013EM051\_Assignment\_02JAN2014#page4.tif  
source=268159-2\_2013EM051\_Assignment\_02JAN2014#page5.tif  
source=268159-2\_2013EM051\_Assignment\_02JAN2014#page6.tif  
source=268159-2\_2013EM051\_Assignment\_02JAN2014#page7.tif  
source=268159-2\_2013EM051\_Assignment\_02JAN2014#page8.tif  
source=268159-2\_2013EM051\_Assignment\_02JAN2014#page9.tif  
source=268159-2\_2013EM051\_Assignment\_02JAN2014#page10.tif  
source=268159-2\_2013EM051\_Assignment\_02JAN2014#page11.tif

GLOBAL ASSIGNMENT

This assignment is made in accordance with the Joint Development Agreement ("Agreement") effective the 1st day of April 2009 by and between EXXONMOBIL UPSTREAM RESEARCH COMPANY, a corporation organized under the laws of the State of Delaware having a principal place of business at 3120 Buffalo Speedway, Houston, Texas 77098 ("URC"), and GENERAL ELECTRIC COMPANY, a New York corporation, acting through Nuovo Pignone, S.p.A of its Oil and Gas Group of Businesses having a principal place of business at via Felice Matteucci 2, 50127 Florence, Italy and its Global Research Unit having a principal place of business at One Research Circle, Niskayuna, New York ("GE"). URC and GE are individually referred to herein as a "Party" and collectively as the "Parties".

In accordance with my/our obligation(s) under any applicable Employee Agreements or Services Agreements (such as between the undersigned and their respective employers), and/or for other good and valuable consideration, the receipt, sufficiency and adequacy of which is hereby acknowledged, I/we,

Inventor First Name	Inventor Middle Name	Inventor Last Name		Residence Town	Residence State	Residence Country
Erhan		Bas	of	Niskayuna	NY	US
Ali		Can	of	Niskayuna	NY	US
Jens		Rittscher	of	Ballston Lake	NY	US
Weina		Ge	of	Niskayuna	NY	US
Kelly	E.	Wrobel	of	Houston	TX	US
Matthias	G.	Imhof	of	Katy	TX	US
Leslie	A.	Wahrmund	of	Kingwood	TX	US
Gianni		Matteucci	of	Houston	TX	US
Antonio	Rafael	da Costa Paiva	of	Houston	TX	US

hereby sell, assign, and transfer to each of:

Name of Company:	<i>General Electric Company</i>
Entity Type (optional):	<i>New York corporation</i>
Address:	<i>1 River Road, Schenectady, New York 12345 USA</i>

and

Name of Company:	<i>ExxonMobil Upstream Research Company</i>
Entity Type (optional):	<i>Delaware corporation</i>
Address:	<i>3120 Buffalo Speedway, Houston Texas 77098 USA</i>

their successors and assigns, an undivided, one-half interest in the rights, titles and interests in and to the invention and improvements (constituting our entire respective rights, titles and interests in and to the invention and improvements made and conceived by us) described in the application(s) listed in the following table:

Country of Filing	Type of Filing	Application Number	Filing Date	Title
US	Provisional	61/798,669	2013-03-15	Context Based Geo-Seismic Object Identification
US	Non-Provisional			Context Based Geo-Seismic Object Identification

(We hereby authorize and request the Company or Companies or their delegated attorneys or agents to insert above the application number and filing date of the application(s) when known.)

and any and all applications for patent and patents therefrom in any and all countries, including all divisions, continuations, continuations-in-part, reexaminations and reissues thereof, and all rights of priority resulting from the filing of the application(s), and authorize and request any official whose duty it is to issue patents, to issue any patent on the inventions and improvements resulting therefrom to the Company or Companies, or their successors or assigns and agree that on request and without further consideration, we will communicate to the Companies or their representatives or nominees any facts known to us respecting the inventions and improvements and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, reexamination and reissue applications, make all rightful oaths and generally do everything possible to aid the Company or Companies, their successors, assigns, and nominees to obtain and enforce proper patent protection for the invention and its improvements in all countries.

Remuneration claims of the inventor(s)/assignor(s) potentially arising from German Law on Employee Inventions, or any other respective country law, remain unaffected by this assignment.

GE/EM Docket No. 268159-2 / 2013EM051

INVENTOR 1

Signature:   
Erhan BasDate: 12-16-2013Witnessed by:   
SignatureDate: 12-16-2013Donna Bucharat  
Printed Name of WitnessWitnessed by:   
SignatureDate: 12-16-2013Peter Tu  
Printed Name of Witness

---

**SECTION BELOW IS FOR USE ONLY IF SIGNING IN PRESENCE OF A NOTARY**

---

Erhan Bas

Date: \_\_\_\_\_

STATE OF

ss.

COUNTY OF

This \_\_\_\_\_ day of \_\_\_\_\_, 2013 before me personally came the above-named **Erhan Bas**, to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Seal

\_\_\_\_\_  
(Notary Public)

GE/EM Docket No. 268159-2 / 2013EM051

INVENTOR 2

Signature: *Ali Can*  
Ali CanDate: 12/16/2013Witnessed by: *Donna Buckardt*  
SignatureDate: 12/16/2013Donna BUCHARDT  
Printed Name of WitnessWitnessed by: *Peter Ju*  
SignatureDate: 12/16/2013Peter Ju  
Printed Name of Witness**SECTION BELOW IS FOR USE ONLY IF SIGNING IN PRESENCE OF A NOTARY**Ali Can

Date: \_\_\_\_\_

STATE OF

ss.

COUNTY OF

This \_\_\_\_\_ day of \_\_\_\_\_, 2013 before me personally came the above-named **Ali Can**, to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Seal/

\_\_\_\_\_  
(Notary Public)

INVENTOR 3

Signature: [Signature]  
Jens Rittscher

Date: 19 Dec 2013

Witnessed by: [Signature]  
Signature

Date: 12/19/13

Jessica Hagg  
Printed Name of Witness

Witnessed by: [Signature]  
Signature

Date: 12/19/13

Jess Hagg  
Printed Name of Witness

**SECTION BELOW IS FOR USE ONLY IF SIGNING IN PRESENCE OF A NOTARY**

\_\_\_\_\_  
Jens Rittscher Date: \_\_\_\_\_

STATE OF

ss.

COUNTY OF

This \_\_\_\_\_ day of \_\_\_\_\_, 2013 before me personally came the above-named Jens Rittscher, to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Seal

\_\_\_\_\_  
(Notary Public)

GE/EM Docket No. 268159-2 / 2013EM051

INVENTOR 4

Signature: Weina Ge  
Weina GeDate: 12/16/2013Witnessed by: Donna Buchardt  
SignatureDate: 12/16/2013DONNA BUCHARDT  
Printed Name of WitnessWitnessed by: Peter Tu  
SignatureDate: 12/16/2013Peter Tu  
Printed Name of Witness**SECTION BELOW IS FOR USE ONLY IF SIGNING IN PRESENCE OF A NOTARY**Weina Ge

Date: \_\_\_\_\_

STATE OF

SS.

COUNTY OF

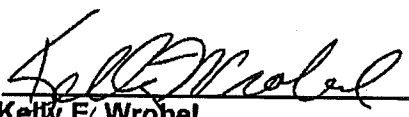
This \_\_\_\_\_ day of \_\_\_\_\_, 2013 before me personally came the above-named **Weina Ge**, to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Seal

\_\_\_\_\_  
(Notary Public)



INVENTOR 5

Signature:   
Kelly E. Wrobel

Date: 12/16/13

Witnessed by:   
Signature

Date: Dec 16, 2013

Christopher A. Paschke  
Printed Name of Witness

Witnessed by:   
Signature

Date: 12/16/13

Peter Druschke  
Printed Name of Witness

**SECTION BELOW IS FOR USE ONLY IF SIGNING IN PRESENCE OF A NOTARY**

\_\_\_\_\_  
Kelly E. Wrobel

Date: \_\_\_\_\_

STATE OF

ss.

COUNTY OF

This \_\_\_\_\_ day of \_\_\_\_\_, 2013 before me personally came the above-named **Kelly E. Wrobel**, to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Seal

\_\_\_\_\_  
(Notary Public)

INVENTOR 6

Signature: M. G. Imhof

Matthias G. Imhof

Date: 12/17/13

Witnessed by: Dwight M. Trawor

Signature

Date: 12/17/13

Dwight M. Trawor  
Printed Name of Witness

Witnessed by: T. Edward Clee

Signature

Date: 12-17-13

T. Edward Clee  
Printed Name of Witness

**SECTION BELOW IS FOR USE ONLY IF SIGNING IN PRESENCE OF A NOTARY**

\_\_\_\_\_  
Matthias G. Imhof

Date: \_\_\_\_\_

STATE OF \_\_\_\_\_

ss. \_\_\_\_\_

COUNTY OF \_\_\_\_\_

This \_\_\_\_\_ day of \_\_\_\_\_, 2013 before me personally came the above-named **Matthias G. Imhof**, to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Seal \_\_\_\_\_

\_\_\_\_\_  
(Notary Public)

INVENTOR 7

Signature: Leslie A. Wahrmond  
Leslie A. Wahrmond

Date: 12/17/2013

Witnessed by: T Edward Clee  
Signature

Date: 12-17-13

T Edward Clee  
Printed Name of Witness

Witnessed by: Dwight M. Trainor  
Signature

Date: 12-17-13

Dwight M. TRAINOR  
Printed Name of Witness

**SECTION BELOW IS FOR USE ONLY IF SIGNING IN PRESENCE OF A NOTARY**

\_\_\_\_\_  
Leslie A. Wahrmond

Date: \_\_\_\_\_

STATE OF

ss.

COUNTY OF

This \_\_\_\_\_ day of \_\_\_\_\_, 2013 before me personally came the above-named **Leslie A. Wahrmond**, to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Seal

\_\_\_\_\_  
(Notary Public)

INVENTOR 8

Signature: Gianni Matteucci  
Gianni Matteucci

Date: 16 Dec 2013

Witnessed by: [Signature]  
Signature

Date: 16 Dec. 2013

Cody MacDonald  
Printed Name of Witness

Witnessed by: [Signature]  
Signature

Date: 16 Dec 2013

Dwight M. Trainor  
Printed Name of Witness

**SECTION BELOW IS FOR USE ONLY IF SIGNING IN PRESENCE OF A NOTARY**

\_\_\_\_\_  
Gianni Matteucci

Date: \_\_\_\_\_

STATE OF

ss.

COUNTY OF

This \_\_\_\_\_ day of \_\_\_\_\_, 2013 before me personally came the above-named **Gianni Matteucci**, to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Seal

\_\_\_\_\_  
(Notary Public)

INVENTOR 9

Signature: Antonio R. C. Paiva  
Antonio Rafael da Costa Paiva

Date: 12/17/2013

Witnessed by: [Signature]  
Signature

Date: 12/17/2013

Cody MacDonald  
Printed Name of Witness

Witnessed by: [Signature]  
Signature

Date: 12/17/2013

Dwight M. TRAMER  
Printed Name of Witness

**SECTION BELOW IS FOR USE ONLY IF SIGNING IN PRESENCE OF A NOTARY**

\_\_\_\_\_  
Antonio Rafael da Costa Paiva

Date: \_\_\_\_\_

STATE OF

SS.

COUNTY OF

STATE OF

SS.

COUNTY OF

This \_\_\_\_\_ day of \_\_\_\_\_, 2013 before me personally came the above-named Antonio Rafael da Costa Paiva, to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Seal

\_\_\_\_\_  
(Notary Public)