

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT2726083

| 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>IBRAHIM ABDULAZIZ</td><td>09/24/2011</td></tr><tr><td>LUC IKELLE</td><td>10/10/2012</td></tr></tbody></table> | | Name | Execution Date | IBRAHIM ABDULAZIZ | 09/24/2011 | LUC IKELLE | 10/10/2012 | | | | |
| Name | Execution Date | | | | | | | | | | |
| IBRAHIM ABDULAZIZ | 09/24/2011 | | | | | | | | | | |
| LUC IKELLE | 10/10/2012 | | | | | | | | | | |
| RECEIVING PARTY DATA | | | | | | | | | | | |
| <table border="1"><tr><td>Name:</td><td>SAUDI ARABIAN OIL COMPANY</td></tr><tr><td>Street Address:</td><td>1 EASTERN AVENUE</td></tr><tr><td>City:</td><td>DHAHRAN</td></tr><tr><td>State/Country:</td><td>SAUDI ARABIA</td></tr><tr><td>Postal Code:</td><td>31311</td></tr></table> | | Name: | SAUDI ARABIAN OIL COMPANY | Street Address: | 1 EASTERN AVENUE | City: | DHAHRAN | State/Country: | SAUDI ARABIA | Postal Code: | 31311 |
| Name: | SAUDI ARABIAN OIL COMPANY | | | | | | | | | | |
| Street Address: | 1 EASTERN AVENUE | | | | | | | | | | |
| City: | DHAHRAN | | | | | | | | | | |
| State/Country: | SAUDI ARABIA | | | | | | | | | | |
| Postal Code: | 31311 | | | | | | | | | | |
| <table border="1"><tr><td>Name:</td><td>TEXAS A&M UNIVERSITY</td></tr><tr><td>Street Address:</td><td>401 JOE ROUTH BLVD.</td></tr><tr><td>City:</td><td>COLLEGE STATION</td></tr><tr><td>State/Country:</td><td>TEXAS</td></tr><tr><td>Postal Code:</td><td>77843-1375</td></tr></table> | | Name: | TEXAS A&M UNIVERSITY | Street Address: | 401 JOE ROUTH BLVD. | City: | COLLEGE STATION | State/Country: | TEXAS | Postal Code: | 77843-1375 |
| Name: | TEXAS A&M UNIVERSITY | | | | | | | | | | |
| Street Address: | 401 JOE ROUTH BLVD. | | | | | | | | | | |
| City: | COLLEGE STATION | | | | | | | | | | |
| State/Country: | TEXAS | | | | | | | | | | |
| Postal Code: | 77843-1375 | | | | | | | | | | |
| 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>13225067</td></tr></tbody></table> | | Property Type | Number | Application Number: | 13225067 | | | | | | |
| Property Type | Number | | | | | | | | | | |
| Application Number: | 13225067 | | | | | | | | | | |
| CORRESPONDENCE DATA | | | | | | | | | | | |
| Fax Number: | | | | | | | | | | | |
| Phone: | 713-223-2300 | | | | | | | | | | |
| Email: | DOCKETING@BGLLP.COM | | | | | | | | | | |
| <i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i> | | | | | | | | | | | |
| Correspondent Name: | BRACEWELL & GIULIANI LLP | | | | | | | | | | |
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|---|-------------------|
| ATTORNEY DOCKET NUMBER: | 004159.001044 |
| NAME OF SUBMITTER: | ESMERALDA MENDOZA |
| Signature: | /Brad Y. Chin/ |
| Date: | 02/13/2014 |
| Total Attachments: 4 source=SA644Assignment_004159_001044#page1.tif source=SA644Assignment_004159_001044#page2.tif source=SA644Assignment_004159_001044#page3.tif source=SA644Assignment_004159_001044#page4.tif | |

ASSIGNMENT

WHEREAS, I, Ibrahim Abdulaziz Alhukail, a citizen of the Saudi Arabia, is a co-inventor of **System, Machine, Program Product, And Computer-Implemented Method For Forming An Enhanced Seismic Trace Using A Virtual Seismic Array**, for which provisional application for United States Letters Patent was filed on February 22, 2010 and assigned Serial No. 61/306,657 and application for United States Letters Patent was filed on February 22, 2011 and assigned Serial No. 13/032,109; and

WHEREAS, SAUDI ARABIAN OIL COMPANY, a Company with Limited Liability of Saudi Arabia, with a business address of 1 Eastern Avenue, Dhahran 31311, Saudi Arabia, hereafter "SAUDI ARAMCO", is desirous of acquiring the entire right, title and interest in and to the aforesaid invention throughout the world, and all right, title and interest in, to and under any and all Letters Patent of the United States and all other countries throughout the world;

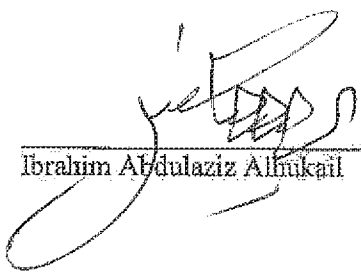
NOW, THEREFORE, for and in consideration of the sum of One Dollar (\$1.00) to us in hand paid by SAUDI ARAMCO and for other good and valuable considerations, the receipt of which is hereby acknowledged, I hereby sell, assign, transfer and set over to SAUDI ARAMCO, all right, title and interest in and to the invention throughout the world, and the application for U.S. Letters Patent, and any and all divisions, provisionals, non-provisionals, continuations, continuations-in-part, reexaminations, reissues or extensions of said patents, and all rights for past and present infringement related to any patents issued or to be issued thereon, and any and all Letters Patent of the United States and foreign countries which may be granted therefor, the same to be held and enjoyed by them for their own use and benefit, and for the use and benefit of their successors, assigns, or other legal representatives, to the end of the term or terms for which the Letters Patent of the United States or foreign countries are or may be granted, reexamined or reissued, as fully and entirely as the same would have been held and enjoyed by us if this assignment and sale had not been made.

And I hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all Letters Patent of the United States on the invention or resulting from the application and from any and all divisions, continuations, reexaminations, and reissues thereof, to SAUDI ARAMCO, as assignee of our entire interest, and hereby covenant that I have the full right to convey the entire interest herein assigned, and that I have not executed and will not execute any agreement in conflict herewith.

And I further hereby covenant and agree that I will, at any time, upon request, execute and deliver any and all papers that may be necessary or desirable to perfect the title of the invention and to such Letters Patent as may be granted therefor, to SAUDI ARAMCO, its successors, assigns, or other legal representatives and that if SAUDI ARAMCO shall desire to file any divisional or continuation applications or to secure a reexamination or reissue of such Letters Patent, or to file a disclaimer relating thereto, will upon request, sign all papers, make all rightful oaths and do all lawful acts requisite for the filing of such divisional or continuation application, or such application for reexamination or reissue and the procuring thereof, and for the filing of such disclaimer, without further compensation but at the expense of said assignee, its successors, or other legal representatives.

And I do further covenant and agree that we will, at any time upon request, communicate to SAUDI ARAMCO, its successors, assigns or other legal representatives, such facts relating to the invention and Letters Patent or the file history thereof as may be known to us, and testify as to the same in any interference or other litigation when requested so to do, without further compensation but at the expense of said assignee, its successors, or other legal representatives.

EXECUTED THIS 24th day of September, 2011.


Ibrahim Abdulaziz Alhukail

ASSIGNMENT

WHEREAS, I, Luc Ikelle, a citizen of the United States of America, is a co-inventor of System, Machine, and Computer-Readable Storage Medium for Forming an Enhanced Seismic Trace Using a Virtual Seismic Array, for which U.S. Non-provisional Application Serial No. 13/225,067 filed on September 2, 2011, which is a continuation application of U.S. Non-provisional Application Serial No. 13/032,109 filed on February 22, 2011, which claims benefit of U.S. Provisional Application Serial No. 61/306,637 filed on February 22, 2010, for United States Letters Patent; and

WHEREAS, Texas A&M University, with a business address at 401 Joe Routt Blvd., College Station, Texas 77843-1372, (hereinafter referred to as "ASSIGNEE"), is desirous of acquiring the same ;

NOW, THEREFORE, for and in consideration of the sum of One Dollar (\$1.00) to us in hand paid by ASSIGNEE and for other good and valuable considerations, the receipt of which is hereby acknowledged, I hereby sell, assign, transfer and set over to ASSIGNEE, all right, title and interest in and to the invention throughout the world, and the application for U.S. Letters Patent, and any and all divisions, provisionals, non-provisionals, continuations, continuations-in-part, reexaminations, reissues or extensions of said patents, and all rights for past and present infringement related to any patents issued or to be issued thereon, and any and all Letters Patent of the United States and foreign countries which may be granted therefor, the same to be held and enjoyed by them for their own use and benefit, and for the use and benefit of their successors, assigns, or other legal representatives, to the end of the term or terms for which the Letters Patent of the United States or foreign countries are or may be granted, reexamined or reissued, as fully and entirely as the same would have been held and enjoyed by us if this assignment and sale had not been made.

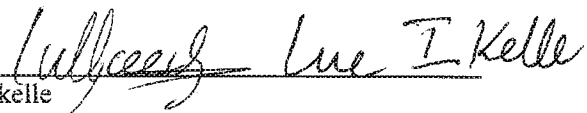
And I hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all Letters Patent of the United States on the invention or resulting from the application and from any and all divisions, continuations, reexaminations, and reissues thereof, to ASSIGNEE, as assignee of our entire interest, and hereby covenant that I have the full right to convey the entire interest herein assigned, and that I have not executed and will not execute any agreement in conflict herewith.

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And I further hereby covenant and agree that I will, at any time, upon request, execute and deliver any and all papers that may be necessary or desirable to perfect the title of the invention and to such Letters Patent as may be granted therefor, to ASSIGNEE, its successors, assigns, or other legal representatives and that if ASSIGNEE shall desire to file any divisional or continuation applications or to secure a reexamination or reissue of such Letters Patent, or to file a disclaimer relating thereto, will upon request, sign all papers, make all rightful oaths and do all lawful acts requisite for the filing of such divisional or continuation application, or such application for reexamination or reissue and the procuring thereof, and for the filing of such disclaimer, without further compensation but at the expense of said assignee, its successors, or other legal representatives.

And I do further covenant and agree that we will, at any time upon request, communicate to ASSIGNEE, its successors, assigns or other legal representatives, such facts relating to the invention and Letters Patent or the file history thereof as may be known to us, and testify as to the same in any interference or other litigation when requested so to do, without further compensation but at the expense of said assignee, its successors, or other legal representatives.

EXECUTED THIS 10th day of October, 2012.



Luc Ikelle

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