504566272 09/26/2017

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|---------------------|----------------|
| UTHMAN BAROUDI | 09/22/2017 |
| ABDULLATIF ALBASEER | 09/22/2017 |

RECEIVING PARTY DATA

| Name: | KING FAHD UNIVERSITY OF PETROLEUM AND MINERALS |
|-----------------|---|
| Street Address: | P.O. BOX 5071, INNOVATION AND INDUSTRIAL RELATION, INNOVATION CLUSTER BUILDING, DTV |
| City: | DHAHRAN |
| State/Country: | SAUDI ARABIA |
| Postal Code: | 31261 |

PROPERTY NUMBERS Total: 1

| Property Type | Number | |
|---------------------|----------|--|
| Application Number: | 15716100 | |

CORRESPONDENCE DATA

Fax Number: (703)413-2220

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: (703) 413-3000
Email: ehasan@oblon.com
Correspondent Name: OBLON, ET AL.
Address Line 1: 1940 DUKE STREET

Address Line 4: ALEXANDRIA, VIRGINIA 22314

| ATTORNEY DOCKET NUMBER: | 503643US | |
|--------------------------------|--|--|
| NAME OF SUBMITTER: | EMEL HASAN | |
| SIGNATURE: | /Emel Hasan/ | |
| DATE SIGNED: 09/26/2017 | | |
| | This document serves as an Oath/Declaration (37 CFR 1.63). | |

Total Attachments: 2

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PATENT 504566272 REEL: 043705 FRAME: 0509

Docker Number: 503643US

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR SINGLE ASSIGNES.

| Title of Invention | NODE PLACEMENT FOR PIPELINE MONITORING |
|--|---|
| As the below name | d inventor, I hereby declare that: |
| This declaration [| The attached application, or |
| is directed to: | United States application or PCT international application number filed on |
| The above-identifi | ed application was made or authorized to be made by me. |
| I believe that I am | the original inventor or an original joint inventor of a claimed invention in the application |
| (hereinalter referr Keletion, linkasida Historial interess | of Fahd University of Petroleum and Minerals and to as "ASSIGNEE") having places of business at: <u>P.O. Box 5071, Innevation and I</u> ndustrial and Change Building, DTV, Dhahran, Saudi Arabig 21261, in desirous of acquiring the entire right, and to said invention and in and to any Letters Patent that may be granted therefore in the United orial possessions and to any and all foreign countries: |
| NOW, THERE actinovied god, and assist ASSIGNEE, and in all foreign other relevant into the second sould be presented and in all the second sould be presented as and in all the second sould be second as and in all the second sould be second as and in all the second sould be second as and in all the second sould be second as and in all the second sould be second as and in all the second sould be second as and in all the second sould be second as an all the second sould be second as a second sould be second sould sould be second sould be second sould be second sould be second sould sould sould sould be second sould so | FORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof interest of for other good and valuable consideration, I, by these presents do sell, using and transfer unto the full and exclusive right to the said invention in the United States and its territorial portrainers (including the right to claim priority under the terms of the International Convention and mational Treaties and Arrangements from the aforesaid application) and the entire right, title and any and all Letters Patern which may be granted therefor in the United States and its territorial in any and all foreign countries and in and to any and all divisions, reissues, continuations and any and all divisions. |
| any end all forcing assignee of my or (his) successors a entirely as the san | rize and request the Pasent Office Officials in the United States and its territorial possessions and it countries to issue any and all of said Letters Patent, when granted, to said ASSIGNT to the tire right, title and interest in and to the same, for the sole use and benefit of said ASSIGNEE, in ad assigns, to the full end of the term for which said Letters Patent may be granted, to fully and se would have been held by me had this Assignment and sale not been made. |
| Further, I sur- respecting and in continued on, sub- elf of said Lefter possible to aid or inversion in the U hereby actor by the or inproc | that I will communicate to said ASSIGNEE or its (his) representatives any fact travel or its that I will communicate to said ASSIGNEE or its (his) representatives any fact divisional receiver, and testify in any legal proceeding, sign all lawful papers, exercise all divisional factors, and generally do everything Patent to be insued to said ASSIGNEE, make all rightful oaths, and, generally do everything divisionally factors and assigns, to obtain and enforce proper protection for any ideal States and its territorial protections and in any and all foreign countries when the factors are insued in this declaration is punishable under 18 1/5 C 1(8) seems of not more than five (5) years, or both |
| LEGAL NAME (Inventor: Lithus Signature: | Parameter Control of the Control of |

OBLON, McCLELLAND, MAIFR & NEUSTADT, L.L.P. ATTORNEYS AT LAV 1941 DUKE STREET ALEXANDRIA VIRGINIA 2214

> PATENT REEL: 043705 FRAME: 0510

Docket Number: 503643US

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR SINGLE ASSIGNEE

| Title of Invention | NODE PLACEMENT FOR PIPELINE MONITORING | | | | |
|---|--|---------------|---------------------------------------|--|--|
| As the below name | d inventor, I hereby declare that: | | | | |
| This declaration 🗵 | The attached application, or | | | | |
| is directed to: United States application or PCT international application number | | | | | |
| The above-identifie | ed application was made or authorized to be made by | me. | | | |
| I believe that I am t | he original inventor or an original joint inventor of a | claimed in | vention in the application. | | |
| (hereinafter referred Relation, Innovation title and interest in | g Fahd University of Petroleum and Minerals d to as "ASSIGNEE") having places of business a n Cluster Building, DTV, Dhahran, Saudi Arabia 31 and to said invention and in and to any Letters Pater orial possessions and in any and all foreign countries | 1261, is desi | sirous of acquiring the entire right, | | |
| NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I, by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries (including the right to claim priority under the terms of the International Convention and other relevant International Treaties and Arrangements from the aforesaid application) and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof. | | | | | |
| I hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my entire right, title and interest in and to the same, for the sole use and benefit of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me had this Assignment and sale not been made. | | | | | |
| Further, I agree that I will communicate to said ASSIGNEE or its (his) representatives any facts known to me respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries. | | | | | |
| | rledge that any willful false statement made in this dement of not more than five (5) years, or both. | eclaration is | s punishable under 18 U.S.C. 1001 | | |
| LEGAL NAME OF | INVENTOR | | | | |
| Inventor: Abdulla | ntif ALBASEER | Date: | 22-09-2017 | | |
| Signature: | and the state of t | | | | |

OBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P.

ATTORNEYS AT LAW 1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314

> PATENT REEL: 043705 FRAME: 0511

RECORDED: 09/26/2017