### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4845977

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
BASSEL ALAA AWAD ABDELKADER	01/25/2018
MOHAMED A. ANTAR	01/21/2018
ZAFARULLAH KHAN	01/30/2018
TAHAR LAOUI	01/25/2018

#### **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:	15908922

#### **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: mmurphy@oblon.com
Correspondent Name: OBLON, ET AL.

Address Line 1: 1940 DUKE STREET

Address Line 4: ALEXANDRIA, VIRGINIA 22314

ATTORNEY DOCKET NUMBER:	506475US
NAME OF SUBMITTER:	MATTHEW MURPHY
SIGNATURE:	/Matthew Murphy/
DATE SIGNED:	03/01/2018
	This document serves as an Oath/Declaration (37 CFR 1.63).

**Total Attachments: 4** 

source=506475US\_Assignment#page1.tif

source=506475US\_Assignment#page2.tif source=506475US\_Assignment#page3.tif source=506475US\_Assignment#page4.tif

Docket Number: 506475US

# 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	A METHOD OF DEIONIZING SALINE WATER WITH A DIFFUSION BARRIER
As the below named	inventor, I hereby declare that:
This declaration [2]	The attached application, or
is directed to:	United States application or PCT international application number
The above-identified	dapplication was made or authorized to be made by me.
I believe that I am th	ne original inventor or an original joint inventor of a claimed invention in the application.
(hereinafter referred Relation, Innovation title and interest in a	Fahd University of Petroleum and Minerals I to as "ASSIGNEE") having places of business at: P.O. Box 5071, Innovation and Industrial Cluster Building, DTV, Dhahran, Saudi Arabia 31261, is 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 rial possessions and in any and all foreign countries;
acknowledged, and said ASSIGNEE, th and in all foreign co other relevant Interv interest in and to ar	ORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby for other good and valuable consideration, I, by these presents do sell, assign and transfer unto e full and exclusive right to the said invention in the United States and its territorial possessions untries (including the right to claim priority under the terms of the International Convention and national Treaties and Arrangements from the aforesaid application) and the entire right, title and my and all Letters Patent which may be granted therefor in the United States and its territorial any and all foreign countries and in and to any and all divisions, reissues, continuations, newals thereof.
any and all foreign assignce of my entir (his) successors and	the and request the Patent Office Officials in the United States and its territorial possessions and countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the regist, title and interest in and to the same, for the sole use and benefit of said ASSIGNEE, its assigns, to the full end of the term for which said Letters Patent may be granted, as fully and 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.	
I hereby acknowl by fine or imprisonn	edge that any willful false statement made in this declaration is punishable under 18 U.S.C. 100) tent of not more than five (5) years, or both.
LEGAL NAME OF	INVENTOR
Inventor: Bassel A	las Awad ABDELKADER Date: 25/1/2,18
Signature:	Bossd appleMader:

OBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P. ATTORNEYS AT LAW 1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314

Docket Number: 506475US

## 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 A METHOD OF DEIONIZING SALINE WATER WITH A DIFFUSION	
Invention BARRIER	
As the below named 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-identified 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.	
WHEREAS, King Fahd University of Petroleum and Minerals	
(hereinafter referred to as "ASSIGNEE") having places of business at: P.O. Box 5071, Innovation and Industrial Relation, Innovation Cluster Building, DTV, Dhahran, Saudi Arabia 31261, is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;	
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.	
I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.	
LEGAL NAME OF INVENTOR	
Inventor: Mohamed A. ANTAR Date: 21-1-2018	
Signature:	

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

ATTORNEYS AT LAW
1940 DUKE STREET
ALEXANDRIA, VIRGINIA 22314

Docket Number 5064 75US

### 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	A METHOD OF DEIONIZ BARRIER	ING SALINE WATER WITH A DIFFUSION
As the below na	med inventor, I hereby declare that:	
This declaration	The anached application, or	i de la companya de
is directed to:	filed on	T intensitional application number
The above-identi	ified application was made or autho	rized to be made by me.
I believe that I at	m the original inventor or an origin	at joint inventor of a claimed invention in the application.
hereinafter refer Relation, Innovati the and interest i tages and its terr	in and to said invention and to and it any and	daces of business at: <u>F.O. 1808, 39.1.1, time fauth, accompany</u> an. Saudi Arabia 31261, is desirous of acquiring the entire right, to any Letters Patent that may be granted therefore in the United all foreign countries;
NOW THER cknowledged, as aid ASSIGNEE, at in all foreign her relevant Insterest in and to assessions and accounts and	EPORE, in consideration of the send for other good and valuable of the full and exclusive right to the countries (including the right to serrational Treaties and Arrangem any and all Letters Patent which in any and all foreign countries	sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby ensideration. I by these presents do sell, assign and transfer unto a said invention in the United States and its territorial possessions claim priority under the terms of the International Convention and ents from the aforesaid application) and the entire right, title and a may be granted therefor in the United States and its territorial and in and to any and all divisions, reissues, continuations,
I hereby authory and all forcig agnee of my en a) anccessors a	rize and request the Patent Offic in countries to issue any and all interright, title and interest in an and assigns, to the full end of the	e Officiels in the United States and its territorial possessions and of said Letters Patent, when granted, to said ASSIGNEE as the dot to the same, for the sole use and benefit of said ASSIGNEE, its term for which said Letters Patent may be granted, as fully and ad this Assignment and sale not been made.
Further, I agree pecting said in timustion, subsection of said Letters subjects and sai	e that I will communicate to sale evention, and testify in any le- titute, renewal and reissue appli- Patent to be issued to said Al- Id ASSIGNEE, its (his) success	d ASSIGNEE or its (his) representatives any tacte shown as the gal proceeding, sign all lawful papers, execute all divisional cations, execute all necessary assignment papers to cause any and SIGNEE, make all rightful oaths, and, generally do everything ors and assigns, to obtain and enforce proper protection for sall sessions and in any and all foreign countries.
	wledge that any willful false stat sment of not more than five (5)	Guieur mage in this declaration is banishanic miner to conserve.
JAL NAME O		
		Desc. Jan. 30, 2018
9		***************************************
san <u>Zataru</u> T <b>y</b>	~~~ * · ·	

OBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P. ATTORNEYS AT LAW 1940 DUKE STREET

ALEXANDRIA VIRGINIA 22314

Docket Number: 506475US

## 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	A METHOD OF DEIONIZING SALINE WATER WITH A DIFFUSION BARRIER
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	d 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 invention in the application.
(hereinafter referre Relation, Innovatio title and interest in	g Fahd University of Petroleum and Minerals d to as "ASSIGNEE") having places of business at: P.O. Box 5071, Innovation and Industrial n Cluster Building, DTV, Dhahran, Saudi Arabia 31261, is 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 brial possessions and in any and all foreign countries;
acknowledged, and said ASSIGNEE, it and in all foreign co other relevant Inter interest in and to a	FORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby for other good and valuable consideration, I, by these presents do sell, assign and transfer unto ne full and exclusive right to the said invention in the United States and its territorial possessions puntries (including the right to claim priority under the terms of the International Convention and national Treaties and Arrangements from the aforesaid application) and the entire right, title and my and all Letters Patent which may be granted therefor in the United States and its territorial any and all foreign countries and in and to any and all divisions, reissues, continuations, newals 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.	
Thereby acknow by fine or imprison	ledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 nent of not more than five (5) years, or both.
LEGAL NAME OF	INVENTOR
Inventor: Tahar L.	AOUI Date; 25 /01/2018
Signature:	

OBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P. ÄTTORNEYS AT LAW 1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314

> PATENT REEL: 045073 FRAME: 0132

**RECORDED: 03/01/2018**