505252899 12/26/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5299669

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
IDRIS KAYODE POPOOLA	12/03/2018
MUHAMMAD ASHRAF GONDAL	12/20/2018
JWAHER M. ALGHAMDI	12/02/2018
TALAL F. QAHTAN	12/02/2018

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
Name:	IMAM ABDULRAHMAN BIN FAISAL UNIVERSITY
Name: Street Address:	IMAM ABDULRAHMAN BIN FAISAL UNIVERSITY KING FAISAL STREET, EASTERN PROVINCE
Street Address:	KING FAISAL STREET, EASTERN PROVINCE

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16232758

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) 413-3000Email:ehasan@oblon.comCorrespondent Name:OBLON, ET AL.Address Line 1:1940 DUKE STREET

Address Line 4: ALEXANDRIA, VIRGINIA 22314

ATTORNEY DOCKET NUMBER:	512894US
NAME OF SUBMITTER:	EMEL HASAN

PATENT 505252899 REEL: 047854 FRAME: 0290

SIGNATURE:	/Emel Hasan/
DATE SIGNED:	12/26/2018
	This document serves as an Oath/Declaration (37 CFR 1.63).
Total Attachments: 4	
source=512894USAssignment#page1.tif	
source=512894USAssignment#page2.tif	
source=512894USAssignment#page3.tif	
source=512894USAssignment#page4.tif	

PATENT REEL: 047854 FRAME: 0291 Decide Standard SC 994 S

DECLARATION (37 CPR 1.65) FOR UTILITY OR DESICN APPLICATION ESING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR MULTIPLE ASSIGNESS

Title of Secondaria	PARK ATION OF REALING MEDICAL COLONIAL	elektrones for hitacial
	Processor, I Booklov Skulland Park	
The decision (2	Consideration of	
	The state of the s	
	the state of the s	
E Company		
		and the second s
	THE STATE OF THE S	
India Bush	and the second s	on 65/11/2012

OBLOS, MACLELLAND, MARKE & NEESTABT, ELLE ATTORNEYS AT LAW 1940 DEKE STREET ALEXANDEIA, VIRGINIA 2204

PATENT

REEL: 047854 FRAME: 0292

Docket Number: 512894US

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

Title of Invention	FABRICATION OF PLATINUM COUNTER ELECTRODES FOR BIFACIAL DYE-SENSITIZED SOLAR CELLS
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.
	he original inventor or an original joint inventor of a claimed invention in the application.
WHEREAS, (1)	King Fahd University of Petroleum and Minerals and (2) Imam Abdulrahman Bin Faisal versity
Eastern Province, entire right, title an	d to as "ASSIGNEES") having places of business at: (1) P.O. Box 5071, Innovation, Innovation Cluster Building, DTV, Dhahran, Saudi Arabia 31261 and (2) King Faisal Str. Dammam, 31441, Saudi Arabia, respectively are desirous of jointly acquiring interests in d interest in and to said invention and in and to any Letters Patent that may be granted thereform its territorial possessions and in any and all foreign countries;
said ASSIGNEES, and in all foreign cother relevant Interinterest in and to a	FORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is he I for other good and valuable consideration, I, by these presents do sell, assign and transfer the full and exclusive right to the said invention in the United States and its territorial possess ountries (including the right to claim priority under the terms of the International Convention mational Treaties and Arrangements from the aforesaid application) and the entire right, title any and all Letters Patent which may be granted therefor in the United States and its territor any and all foreign countries and in and to any and all divisions, reissues, continuation enewals thereof.
assignees of my e their successors an entirely as the same	ize and request the Patent Office Officials in the United States and its territorial possessions a countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEES as notire right, title and interest in and to the same, for the sole use and benefit of said ASSIGNI and assigns, to the full end of the term for which said Letters Patent may be granted, as fully a would have been held by me had this Assignment and sale not been made.
Further, I agree respecting said in continuation, subst all of said Letters possible to aid sai	that I will communicate to said ASSIGNEES or their representatives any facts known to vention, and testify in any legal proceeding, sign all lawful papers, execute all divisic itute, renewal and reissue applications, execute all necessary assignment papers to cause any Patent to be issued to said ASSIGNEES, make all rightful oaths, and, generally do everythe design and enforce proper protection for itted States and its territorial possessions and in any and all foreign countries.
I hereby acknow	vledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1 ment of not more than five (5) years, or both.
LEGAL NAME O	FINVENTOR
Inventor: Muham	nmad Ashraf GONDAL Date: 20th December, 2018
Signature:	m- C1. C - Dal

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

ATTORNEYS AT LAW 1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314

> PATENT REEL: 047854 FRAME: 0293

Docket Number: 512894US

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

Title of Invention	FABRICATION OF PLATINUM COUNTER ELECTRODES FOR BIFACIAL DYE-SENSITIZED SOLAR CELLS
As the below n	amed inventor, I hereby declare that:
This declaration	n 🔯 The attached application, or
is directed to:	United States application or PCT international application number filed on
The above-iden	tified 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.
	(1) King Fahd University of Petroleum and Minerals and (2) Imam Abdulrahman Bin Faisal University
Industrial Relationship Eastern Provincentire right, title	ferred to as "ASSIGNEES") having places of business at: (1) P.O. Box 5071, Innovation and tion, Innovation Chapter Building, DTV, Dhahran, Saudi Arabia 31261 and (2) King Faisal Street, ce. Dammam, 31441, Saudi Arabia, respectively are desirous of jointly acquiring interests in the e and interest in and to said invention and in and to any Letters Patent that may be granted therefore in each its territorial possessions and in any and all foreign countries;
acknowledged, said ASSIGNE and in all foreig other relevant I interest in and possessions an	REFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby and for other good and valuable consideration, I, by these presents do sell, assign and transfer unto ES, the full and exclusive right to the said invention in the United States and its territorial possessions on countries (including the right to claim priority under the terms of the International Convention and International Treaties and Arrangements from the aforesaid application) and the entire right, title and to any and all Letters Patent which may be granted therefor in the United States and its territorial d in any and all foreign countries and in and to any and all divisions, reissues, continuations, d renewals thereof.
any and all fore assignees of my their successors	horize and request the Patent Office Officials in the United States and its territorial possessions and eign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEES as the entire right, title and interest in and to the same, for the sole use and benefit of said ASSIGNEES, and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and ame would have been held by me had this Assignment and sale not been made.
Further, I agree that I will communicate to said ASSIGNEES or their 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 ASSIGNEES, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEES, their 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.	
	nowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 somment of not more than five (5) years, or both.
LEGAL NAME	OF INVENTOR
Inventor: Iwa	her M. ALGHAMDI Date: 2 Dec 2018
Signature:	Galler Alahawak So

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

PATENT REEL: 047854 FRAME: 0294 Docket Number: 512894US

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

Title of	FABRICATION OF PLATINUM COUNTER ELECTRODES FOR BIFACIAL	
Invention	DYE-SENSITIZED SOLAR CELLS	
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.	
	King Fahd University of Petroleum and Minerals and (2) Imam Abdulrahman Bin Faisal versity	
<u>Eastern Province</u> , entire right, title an	d to as "ASSIGNEES") having places of business at: (1) P.O. Box 5071, Innovation and Innovation Cluster Building, DTV, Dhahran, Saudi Arabia 31261 and (2) King Faisal Street, Dammam, 31441, Saudi Arabia, respectively are desirous of jointly acquiring interests in the d interest in and to said invention and in and to any Letters Patent that may be granted therefore in and its territorial possessions and in any and all foreign countries;	
acknowledged, and said ASSIGNEES, and in all foreign c 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 the full and exclusive right to the said invention in the United States and its territorial possessions ountries (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 any 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 assignees of my en their successors an	ze 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 ASSIGNEES as the ntire right, title and interest in and to the same, for the sole use and benefit of said ASSIGNEES, d 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 ASSIGNEES or their 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 ASSIGNEES, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEES, their 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 acknow by fine or imprison	ledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 ment of not more than five (5) years, or both.	
LEGAL NAME OF INVENTOR		
Inventor: Talal F.	QAHTAN Date: 9/12/2018	
Signature: T		

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

PATENT REEL: 047854 FRAME: 0295

RECORDED: 12/26/2018