507093129 01/25/2022

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT7139966

SUBMISSION TYPE:		NEW ASSIGNMENT	
		ASSIGNMENT	
CONVEYING PARTY DA			
		Name	Execution Date
CYNTHIA RICE			06/28/2020
SHADI SAEED			06/28/2020
			06/28/2020
ANTONIO PISTONO			06/28/2020
RECEIVING PARTY DA	ТА		
Name:	TENNESSEE TECHNOLOGICAL UNIVERSITY		
Street Address:	1 WILLIAM L. JONES DRIVE		
City:	COOKEVILLE		
State/Country:	TENNESSEE		
Postal Code:	38505		
Property Type Application Number:		Number	
CORRESPONDENCE DA	ΑΤΑ		
Fax Number:	(615)244-6804	
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Fax Number: Correspondence will be using a fax number, if p Phone: Email: Correspondent Name: Address Line 1:) e sent to provided, f f / / /	<i>the e-mail address first; if that is unsuc</i> <i>if that is unsuccessful, it will be sent v</i> 015-244-6380 patentdocket@wallerlaw.com ANDRE J. BAHOU WALLER LANSDEN DORTCH & DAVIS, L	ria US Mail.
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PATENT REEL: 058763 FRAME: 0768

WHEREAS I, the below named inventor, hereinalter referred to as Assignor, have made an invention entitled:

ADVANCED SELECTIVELY GAS PERMEABLE ANODE FLOW FIELD DESIGN FOR EFFICIENT REMOVAL OF CARBON DIOXIDE IN A DIRECT FORMIC ACID FUEL CELL

for which I executed an application for United States Letters Patent; and

WHEREAS, **Tennessee Technological University**, whose post office address is 1 William L Jones Drive, Cookeville, TN 38505 (hereinafter referred to as "Assignee"), is desirous of securing the entire right, title, and interest in and to this invention in all countries throughout the world, and in and to the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

NOW THEREFORE, be it known that for good and valuable consideration the receipt of which from assignee is hereby acknowledged. I, as assigner, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, my entire right, title, and interest in and to this invention, patent application Serial No. 62/462,970, filed February 24, 2017; patent application Serial No. 62/912,860, filed October 9, 2019; patent application Serial No. 15/905,573, filed February 26, 2018; and all divisions, continuations, and continuations-in-part thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof, and all rights to claim priority on the basis of the above provisional application, as well as all rights to claim priority on the basis of this application, and all applications for Letters Patent which may hereafter be filed for this invention in any foreign country and all Letters Patent which may be granted on this invention in any foreign country, and all extensions, renewals, and reissues thereof; and I hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I HEREBY covenant that I have the full right to convey the interest assigned by this Assignment, and I have not executed and will not execute any agreement in conflict with this Assignment;

AND, I HEREBY further covenant and agree that I will, without further consideration, communicate with assignee, its successors and assigns, any facts known to me respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors or assigns, execute all divisionals, continuations, and reissue applications, make all rightful daths and generally do everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and assigns.

IN TESTIMONY WHEREOF, I have hereunto set our hands.

Cynthia Rice 1 William L Jones Drive, Cookeville, TN 38505

nth sike Signature:

Date: June 28, 2020

WHEREAS I, the below named inventor, hereinafter referred to as Assignor, have made an invention entitled:

ADVANCED SELECTIVELY GAS PERMEABLE ANODE FLOW FIELD DESIGN FOR EFFICIENT REMOVAL OF CARBON DIOXIDE IN A DIRECT FORMIC ACID FUEL CELL

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AND, I HEREBY covenant that I have the full right to convey the interest assigned by this Assignment, and I have not executed and will not execute any agreement in conflict with this Assignment;

AND, I HEREBY further covenant and agree that I will, without further consideration, communicate with assignee, its successors and assigns, any facts known to me respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors or assigns, execute all divisionals, continuations, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and assigns.

IN TESTIMONY WHEREOF, I have hereunto set our hands.

Shadi Saeed 1 William L Jones Drive, Cookeville, TN 38505

Signature: ____

Date: June 28, 2020

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for which I executed an application for United States Letters Patent; and

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NOW THEREFORE, be it known that for good and valuable consideration the receipt of which from assignee is hereby acknowledged, I, as assignor, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, my entire right, title, and interest in and to this invention, patent application Serial No. 62/462,970, filed February 24, 2017; patent application Serial No. 62/912,860, filed October 9, 2019; patent application Serial No. 15/905,573, filed February 26, 2018; and all divisions, continuations, and continuations-in-part thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof, and all rights to claim priority on the basis of the above provisional application, as well as all rights to claim priority on the basis of this applications for Letters Patent which may hereafter be filed for this invention in any foreign country and all Letters Patent which may be granted on this invention in any foreign country, and all extensions, renewals, and reissues thereof; and I hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to assignee, its successors and assigns, in accordance with the terms of this Assignment;

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IN TESTIMONY WHEREOF, I have hereunto set our hands.

Michael Renfro 1 William L Jones Drive, Cookeville, TN 38505

Signature: <u>Jul Mp</u>

Date: June 28, 2020

PATENT REEL: 058763 FRAME: 0771

WHEREAS I, the below named inventor, hereinafter referred to as Assignor, have made an invention entitled;

ADVANCED SELECTIVELY GAS PERMEABLE ANODE FLOW FIELD DESIGN FOR EFFICIENT REMOVAL OF CARBON DIOXIDE IN A DIRECT FORMIC ACID FUEL CELL

for which I executed an application for United States Letters Patent; and

WHEREAS, Tennessee Technological University, whose post office address is 1 William L Jones Drive, Cookeville, TN 38505 (hereinafter referred to as "Assignee"), is desirous of securing the entire right, title, and interest in and to this invention in all countries throughout the world, and in and to the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

NOW THEREFORE, be it known that for good and valuable consideration the receipt of which from assigned is hereby acknowledged. I, as assigner, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, my entire right, tibe, and interest in and to this invention, patent application Serial No. 62/462,970, filed February 24, 2017; patent application Serial No. 62/912,860, filed October 9, 2019; patent application Serial No. 15/905,573, filed February 26, 2018; and all divisions, continuations, and continuations-in-part thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof, and all rights to claim priority on the basis of the above provisional application, as well as all rights to claim priority on the basis of this applications for Letters Patent which may hereafter be filed for this invention in any foreign country and all Letters Patent which may be granted on this invention in any foreign country, and all extensions, renewals, and reissues thereof; and I hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I HEREBY covenant that I have the full right to convey the interest assigned by this Assignment, and I have not executed and will not execute any agreement in conflict with this Assignment;

AND, I HEREBY further covenant and agree that I will, without further consideration, communicate with assigned, its successors and assigns, any facts known to me respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors or assigns, execute all divisionals, continuations, and reissue applications, make all rightful caths and generally do everything possible to ald assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and assigns.

IN TESTIMONY WHEREOF, I have hereunto set our hands.

Antonio Pistono 1 William L Jones Drive, Cookeville, TN 36505

Signature.

Date: Jurle 28, 2020

RECORDED: 01/25/2022