

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5437367

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
JOHN H. LIENHARD	12/10/2018
KISHOR GOVIND NAYAR	01/11/2019
RONAN K. MCGOVERN	03/13/2019
BADER AL-ANZI	01/09/2019
RECEIVING PARTY DATA	
Name:	Massachusetts Institute of Technology
Street Address:	77 Massachusetts Avenue
City:	Cambridge
State/Country:	MASSACHUSETTS
Postal Code:	02139
PROPERTY NUMBERS Total: 2	
Property Type	Number
Application Number:	16117471
PCT Number:	US2018048932
CORRESPONDENCE DATA	
Fax Number:	(617)401-3687
<i>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.</i>	
Phone:	6174012460
Email:	bob@mxlegal.com
Correspondent Name:	ROBERT SAYRE
Address Line 1:	MODERN TIMES LEGAL
Address Line 2:	1 BROADWAY, 14TH FLOOR
Address Line 4:	CAMBRIDGE, MASSACHUSETTS 02142
ATTORNEY DOCKET NUMBER:	MIT-19893
NAME OF SUBMITTER:	ROBERT J. SAYRE
SIGNATURE:	/Robert J. Sayre, Reg. No. 42,124/
DATE SIGNED:	03/24/2019
This document serves as an Oath/Declaration (37 CFR 1.63).	

Total Attachments: 6

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COMBINED DECLARATION AND ASSIGNMENT

Declaration

As the below-named inventors, we hereby declare that this declaration is directed to United States application number 16/117,471, filed on August 30, 2018.

The above-identified application was made or authorized by each of us. We believe that we are the original joint inventors of a claimed invention in the application. We 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.

If the inventors are named as applicants for this application or if our authorization is otherwise needed, we hereby appoint the Patent Practitioner(s) associated with Customer No. 72531 as our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the above-referenced application.

The signature provided at the end of this document attests to both this declaration and the assignment, below.

Assignment

WHEREAS, We, John H. Lienhard, Kishor Govind Nayar, Ronan K. McGovern, and Bader Al-Anzi, all currently or previously employed by or associated with Massachusetts Institute of Technology, made certain new and useful inventions and improvements for which We filed an application for Letters Patent of the United States on August 30, 2018, which application was assigned U.S. patent application serial number 16/117,471 and is entitled, HYBRID REVERSE OSMOSIS ELECTRODIALYSIS SYSTEMS FOR BRINE CONCENTRATION;

AND WHEREAS, Massachusetts Institute of Technology, a corporation organized and existing under and by virtue of the laws of the State/Commonwealth of Massachusetts, and having an office and place of business at 77 Massachusetts Avenue, Cambridge, Massachusetts 02139 (hereinafter "Assignee"), is desirous of acquiring the entire right, title and interest in and to said inventions, improvements and application, and in and to the Letters Patent to be obtained therefore;

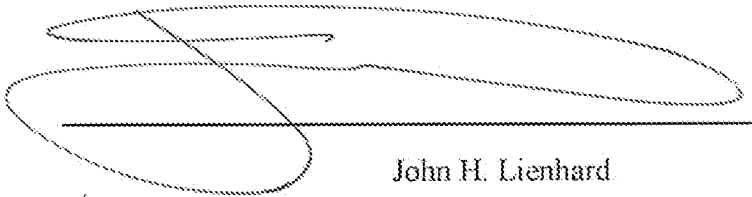
NOW, THEREFORE, to all whom it may concern, be it known that for good and valuable consideration, the receipt and sufficiency whereof is hereby acknowledged, We have sold,

assigned, and transferred, and by these presents do sell, assign and transfer unto the Assignee, its successors or assigns, the entire right, title and interest for all countries in and to all inventions and improvements disclosed in the aforesaid application, and in and to the application, all related provisionals and non-provisionals to which priority is claimed in this application or that claim priority to this application, divisions, continuations, continuations-in-part, or renewals thereof, all Letters Patent that may be granted there from, and all reissues or extensions of such patents, and in and to any and all applications that have been or shall be filed in any foreign countries for Letters Patent on the inventions and improvements, including an assignment of all rights under the provisions of the International Convention (including PCT Application No. US2018/048932), and all Letters Patent of foreign countries that may be granted there from; and we do hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent for the aforesaid inventions and improvements to the Assignee as the assignee of the entire right, title and interest in and to the same, for the use of the Assignee, its successors and assigns.

AND, for the consideration aforesaid, we do hereby agree that we and our executors and legal representatives will make, execute and deliver any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to the Assignee, its successors and representatives all facts known to us relating to the improvements and the history thereof and will testify in all legal proceedings and generally do all things that may be necessary or desirable more effectually to secure to and vest in the Assignee, its successors or assigns the entire right, title and interest in and to the improvements, inventions, applications, Letters Patent, rights, titles, benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

AND, furthermore, we covenant and agree with the Assignee, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by us and that full right to convey the same as herein expressed is possessed by us.

IN TESTIMONY WHEREOF, I have hereunto set my hand this 10 day of
Nov, 2018.


John H. Lienhard

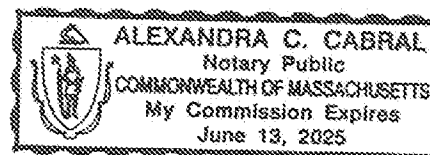
STATE OF Massachusetts

COUNTY OF Middlesex

On this 10th day of December, 2018 before me personally appeared John
H. Lienhard to me known and known to me to be the person described in and who executed the
foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the
uses and purposes therein set forth.

[SEAL]


Notary Public



IN TESTIMONY WHEREOF, I have hereunto set my hand this 11th day of
JANUARY, 2018. 2019 KGN

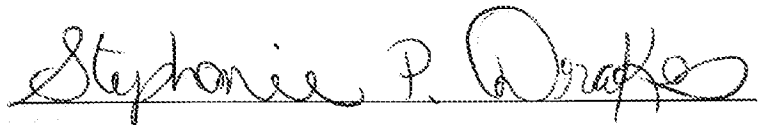
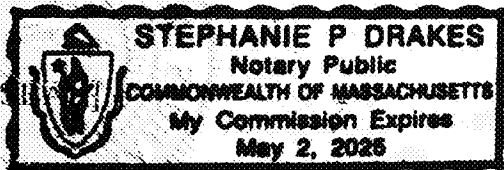


Kishor Govind Nayar

STATE OF Massachusetts

COUNTY OF Middlesex

On this 11 day of January, 2018^{2019 KGN} before me personally appeared Kishor Govind Nayar to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.



Notary Public

IN TESTIMONY WHEREOF, I have hereunto set my hand this 13th day of
March, 2018: 2019

Ronan McGovern

Ronan K. McGovern

STATE OF Massachusetts

COUNTY OF Middlesex

On this 13 day of MARCH, 201~~8~~⁹ before me personally appeared Ronan
K. McGovern to me known and known to me to be the person described in and who executed the
foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the
uses and purposes therein set forth.

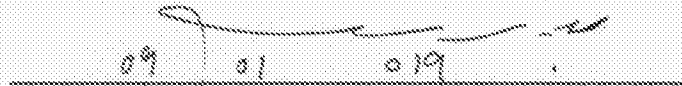
[SEAL]



DONALD C. GROUL
NOTARY PUBLIC
Commonwealth of Massachusetts
My Commission Expires
August 26, 2022

[Signature]
Notary Public

IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of _____, 2018.


Bader Al-Anzi

STATE OF _____

COUNTY OF _____

On this _____ day of _____, 2018 before me personally appeared Bader Al-Anzi to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

[SEAL]

Notary Public
