PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
TOSHINORI HIRANO	11/10/2017
TAKUYA MORIKAWA	11/13/2017
YOSHIFUMI KADO	11/13/2017
TAKUO SAWADA	11/08/2017

RECEIVING PARTY DATA

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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15724518

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER: P53559

NAME OF SUBMITTER: ENOCH E. PEAVEY

SIGNATURE: /Enoch E. Peavey/

DATE SIGNED: 04/13/2018

This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 6

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PATENT REEL: 045537 FRAME: 0283

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PATENT REEL: 045537 FRAME: 0284 P53559 Page 1

COMBINED INVENTOR'S DECLARATION AND ASSIGNMENT

DECLARATION

The herein-identified application was made or authorized to be made by me.

I believe I am the original inventor or an original joint inventor of a claimed invention in the application.

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.

Authorization to Permit Access to Application by Participating Office

If checked, the undersigned hereby grants the USPTO authority to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the World Intellectual Property Office (WIPO), and any other intellectual property offices in which a foreign application claiming priority to the herein-identified patent application is filed access to the herein-identified patent application. See 37 CFR 1.14(c) and (h). This box should not be checked if the applicant does not wish the EPO, JPO, KIPO, WIPO, or other intellectual property office in which a foreign application claiming priority to the herein-identified patent application is filed to have access to the herein-identified patent application.

In accordance with 37 CFR 1.14(h)(3), access will be provided to a copy of the herein-identified patent application with respect to: 1) the herein-identified patent application-as-filed; 2) any foreign application to which the herein-identified patent application claims priority under 35 U.S.C. 119(a)-(d) if a copy of the foreign application that satisfies the certified copy requirement of 37 CFR 1.55 has been filed in the herein-identified patent application; and 3) any U.S. application-as-filed from which benefit is sought in the herein-identified patent application.

In accordance with 37 CFR 1.14(c), access may be provided to information concerning the date of filing the Authorization to Permit Access to Application by Participating Offices.

The undersigned hereby authorizes the U.S. attorney or agent appointed herein to accept and follow instructions from either his foreign patent agent or corporate representative, if any, as to any action to be taken in the Patent and Trademark Office regarding this application without direct communication between the U.S. attorney or agent and the undersigned.

Direct Correspondence to: CUSTOMER NUMBER 07055

At: Greenblum & Bernstein, P.L.C. 1950 Roland Clarke Place Reston, VA 20191

Direct Telephone Calls to: Greenblum & Bernstein, P.L.C. (703) 716-1191

{P53559 03280424.DOC}

WHEREAS, **Toshinori HIRANO**, a resident of Tokyo, JAPAN, whose mailing address is 1-105, Kanda Jinbocho, Chiyoda-ku, Tokyo 101-8101 JAPAN, **Takuya MORIKAWA**, a resident of Tokyo, JAPAN, whose mailing address is 1-105, Kanda Jinbocho, Chiyoda-ku, Tokyo 101-8101 JAPAN, **Yoshifumi KADO**, a resident of Tokyo, JAPAN, whose mailing address is 1-105, Kanda Jinbocho, Chiyoda-ku, Tokyo 101-8101 JAPAN, and **Takuo SAWADA**, a resident of Tokyo, JAPAN, whose mailing address is 1-105, Kanda Jinbocho, Chiyoda-ku, Tokyo 101-8101 JAPAN, hereinafter referred to as the ASSIGNORS, have invented a certain improvement relating to

CATION EXCHANGE MEMBRANE AND ELECTROLYZER

for which they have jointly executed an application for Letters Patent for the United States which was filed in the United States Patent and Trademark Office on October 04, 2017 and was awarded Application No. 15/724,518.

AND WHEREAS, **ASAHI KASEI KABUSHIKI KAISHA**, a corporation organized and existing under the laws of JAPAN, whose mailing address is 1-105, Kanda Jinbocho, Chiyoda-ku, Tokyo 1018101 JAPAN, hereinafter known as the ASSIGNEE, is desirous of acquiring the entire right, title and interest for the United States in and to said invention and application, including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted thereon, including any and all renewals, reissues, reexaminations, and prolongations thereof.

NOW, THIS WITNESSETH that for good and valuable consideration, the receipt whereof is hereby acknowledged, said ASSIGNORS hereby assign, sell and transfer to said ASSIGNEE, its assigns and legal representatives, the entire and exclusive right, title and interest in and to said invention and application, for the United States including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted therefor and all rights to sue for past and future infringement thereunder, said ASSIGNEE and its assigns and legal representatives to have, hold, exercise and enjoy the said invention and application, including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted thereon, including any and all renewals, reissues, reexaminations, and prolongations thereof, with all the rights, powers, privileges, and advantages in any ways arising from or pertaining thereto, for and during the term or terms of any and all such Letters Patent when granted, including any and all renewals, reissues, reexaminations, and prolongations thereof, for the use and benefit of said ASSIGNEE and its assigns and legal representatives in as ample and beneficial a manner to all intents and purposes as the said ASSIGNORS might or could have held and enjoyed the same, if this assignment had not been made.

AND said ASSIGNORS hereby agree to execute all papers necessary to file applications in the United States for said invention and to assign the same to said ASSIGNEE, or any assignee acquiring title to said invention, and to execute any other papers that may be needed in connection with filing said application and securing Letters Patent thereon.

{P53559 03280424.DOC}

PATENT REEL: 045537 FRAME: 0286 P53559 Page 3

AND said ASSIGNORS authorize and request the Commissioner of Patents to issue Letters Patent on said application, and on any and all divisions and continuations thereof, to said ASSIGNEE, its assigns and legal representatives, in accordance herewith.

IN TESTIMONY WHEREOF, this assignment is executed by said ASSIGNOR(S), on the respective date(s) indicated below.

First Witness (Optional):	
(Name)	
(Date)	T. Hirano
	Toshinori HIRANO
	Date NOV. 10, 2017
Second Witness (Optional):	
(Name)	
(Date)	

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(Date)

IN TESTIMONY WHEREOR respective date(s) indicated below.	F, this assignment is executed by said ASSIGNOR(S), on the
First Witness (Optional):	
(Name)	-
(Date)	闰 程典
	Yoshifumi KADO
	Date 13th November 2017.
Second Witness (Optional):	
(Name)	-
(Date)	-

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IN TESTIMONY WHEREOF, this assignment is executed by said ASSIGNOR(S), on the respective date(s) indicated below. First Witness (Optional): (Name) (Date) 澤田物男 Takuo SAWADA Date 2017/ 11/08 Second Witness (Optional): (Name) (Date)

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