

<b>PATENT ASSIGNMENT COVER SHEET</b>
--------------------------------------

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5347994

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT

**CONVEYING PARTY DATA**

Name	Execution Date
TAKEO YAMAGUCHI	10/25/2018
YUHEI OSHIBA	11/02/2018
HIDENORI OHASHI	11/02/2018
JIN TOMATSU	11/02/2018
KOJI FURUYA	10/29/2018
TAKAO OHNO	10/29/2018
MAMI NANBU	11/02/2018

**RECEIVING PARTY DATA**

<b>Name:</b>	TOKYO INSTITUTE OF TECHNOLOGY
<b>Street Address:</b>	2-12-1, OOKAYAMA, MEGURO-KU
<b>City:</b>	TOKYO
<b>State/Country:</b>	JAPAN
<b>Postal Code:</b>	152-8550
<b>Name:</b>	TEIJIN LIMITED
<b>Street Address:</b>	2-4, NAKANOSHIMA 3-CHOME, KITA-KU
<b>City:</b>	OSAKA-SHI, OSAKA
<b>State/Country:</b>	JAPAN
<b>Postal Code:</b>	530-0005
<b>Name:</b>	KANAGAWA INSTITUTE OF INDUSTRIAL SCIENCE AND TECHNOLOGY
<b>Street Address:</b>	705-1, SHIMOIMAIZUMI
<b>City:</b>	EBINA-SHI, KANAGAWA
<b>State/Country:</b>	JAPAN
<b>Postal Code:</b>	243-0435

**PROPERTY NUMBERS Total: 1**

Property Type	Number
<b>Application Number:</b>	16320354

**CORRESPONDENCE DATA**

**Fax Number:** (202)293-7860

**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:** 202-293-7060  
**Email:** qgraham@sughrue.com, sughrue@sughrue.com  
**Correspondent Name:** SUGHRUE MION, PLLC  
**Address Line 1:** 2100 PENNSYLVANIA AVENUE, N.W.  
**Address Line 2:** SUITE 800  
**Address Line 4:** WASHINGTON, D.C. 20037

<b>ATTORNEY DOCKET NUMBER:</b>	Q243176
<b>NAME OF SUBMITTER:</b>	QIANA GRAHAM, NEW APPLICATIONS DEPT
<b>SIGNATURE:</b>	/Qiana Graham/
<b>DATE SIGNED:</b>	01/29/2019

**Total Attachments: 3**  
source=Q243176Assignmentasfiled#page1.tif  
source=Q243176Assignmentasfiled#page2.tif  
source=Q243176Assignmentasfiled#page3.tif

# U.S. ASSIGNMENT

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter "ASSIGNOR") by

(Insert  
ASSIGNEE's  
Name(s)  
Address(es))

1) TOKYO INSTITUTE OF TECHNOLOGY

2-12-1, Ookayama, Meguro-ku, Tokyo 152-8550, Japan

2) FELJIN LIMITED

2-4, Nakanoshima 3-chome, Kita-ku, Osaka-shi, Osaka 530-0005, Japan

3) Kanagawa Institute of Industrial Science and Technology

705-1, Shimoimaizumi, Ebina-shi, Kanagawa 243-0435, Japan

(hereinafter "ASSIGNEE"), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the invention entitled

(Title of  
Invention)

ELECTROLYTE MEMBRANE AND METHOD FOR PRODUCING SAME

relating to International Patent Application PCT/JP 2017 / 020368 and/or for which application for Letters Patent of the United States was executed on even date herewith or, if not so executed, was:

(Insert date  
of execution  
of application,  
if not  
concurrent)

(a) executed on \_\_\_\_\_  
(b) filed on January 24, 2019  
Serial No. 16/320,354

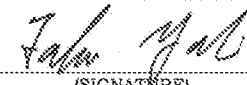
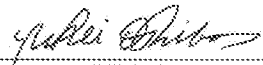
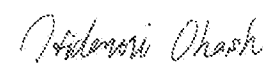
*Assignee's attorney is hereby authorized to insert in (b) the specified data, when known.*

and to said application and all Letters Patent(s) of the United States granted on said application and any continuation, division, renewal, substitute, reissue or reexamination application based thereon, for the full term or terms for which the said Letters Patent(s) may be granted and including any extensions thereof (collectively, hereinafter, "said application(s) and Letters Patent(s)").

The ASSIGNOR agrees(s), when requested by said ASSIGNEE and without charge to but at the expense of said ASSIGNEE, to do all acts which the ASSIGNEE may deem necessary, desirable or expedient, for securing, maintaining and enforcing protection for said invention, including in the preparation and prosecution of said application(s) and the issuance of said Letters Patent(s), in any interference, reissue, reexamination, or public use proceeding, and in any litigation or other legal proceeding which may arise or be declared in relation to same, such acts to include but not be limited to executing all papers, including separate assignments and declarations, taking all rightful oaths, providing sworn testimony, and obtaining and producing evidence.

IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).

(Signatures)

1)		Takeo Yamaguchi	<u>10/25/2018</u>
	(SIGNATURE)	(TYPE NAME)	(DATE)
2)		Yuhei Oshiba	November 2, 2018
	(SIGNATURE)	(TYPE NAME)	(DATE)
3)		Hidenori Ohashi	November 2, 2018
	(SIGNATURE)	(TYPE NAME)	(DATE)
4)		Jin Tomatsu	
	(SIGNATURE)	(TYPE NAME)	(DATE)
5)		Koji Furuya	
	(SIGNATURE)	(TYPE NAME)	(DATE)
6)		Takao Ohno	
	(SIGNATURE)	(TYPE NAME)	(DATE)
7)		Mami Nanbu	
	(SIGNATURE)	(TYPE NAME)	(DATE)
8)			
	(SIGNATURE)	(TYPE NAME)	(DATE)

# U.S. ASSIGNMENT

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter "ASSIGNOR") by

(Insert  
ASSIGNEE's  
Name(s)  
Address(es))

1) TOKYO INSTITUTE OF TECHNOLOGY

2-12-1, Ookayama, Meguro-ku, Tokyo 152-8550, Japan

2) TEJIN LIMITED

2-4, Nakanoshima 3-chome, Kita-ku, Osaka-shi, Osaka 530-0005, Japan

3) Kanagawa Institute of Industrial Science and Technology

705-1, Shimooinaizumi, Ebina-shi, Kanagawa 243-0435, Japan

(hereinafter "ASSIGNEE"), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the invention entitled

(Title of  
Invention)

ELECTROLYTE MEMBRANE AND METHOD FOR PRODUCING SAME

relating to International Patent Application PCT/JP 2017 / 020368 and/or for which application for Letters Patent of the United States was executed on even date herewith or, if not so executed, was:

(Insert date  
of execution  
of application,  
if not  
concurrent)

(a) executed on \_\_\_\_\_

(b) filed on January 24, 2019

Serial No. 16/320,354

*Assignee's attorney is hereby authorized to insert in (b) the specified data, when known.*

and to said application and all Letters Patent(s) of the United States granted on said application and any continuation, division, renewal, substitute, reissue or reexamination application based thereon, for the full term or terms for which the said Letters Patent(s) may be granted and including any extensions thereof (collectively, hereinafter, "said application(s) and Letters Patent(s)").

The ASSIGNOR agree(s), when requested by said ASSIGNEE and without charge to but at the expense of said ASSIGNEE, to do all acts which the ASSIGNEE may deem necessary, desirable or expedient, for securing, maintaining and enforcing protection for said invention, including in the preparation and prosecution of said application(s) and the issuance of said Letters Patent(s), in any interference, reissue, reexamination, or public use proceeding, and in any litigation or other legal proceeding which may arise or be declared in relation to same, such acts to include but not be limited to executing all papers, including separate assignments and declarations, taking all rightful oaths, providing sworn testimony, and obtaining and producing evidence.

IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).

(Signatures)

1) _____ (SIGNATURE)	Takeo Yamaguchi _____ (TYPE NAME)	_____ (DATE)
2) _____ (SIGNATURE)	Yuhei Oshiba _____ (TYPE NAME)	_____ (DATE)
3) _____ (SIGNATURE)	Hidenori Ohashi _____ (TYPE NAME)	_____ (DATE)
4) <u>Jim Tomatsu</u> (SIGNATURE)	Jim Tomatsu _____ (TYPE NAME)	<u>November 2, 2018</u> (DATE)
5) _____ (SIGNATURE)	Koji Furuya _____ (TYPE NAME)	_____ (DATE)
6) _____ (SIGNATURE)	Takao Ohno _____ (TYPE NAME)	_____ (DATE)
7) _____ (SIGNATURE)	Mami Nanbu _____ (TYPE NAME)	_____ (DATE)
8) _____ (SIGNATURE)	_____ (TYPE NAME)	_____ (DATE)

# U.S. ASSIGNMENT

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter "ASSIGNOR") by

(Insert  
ASSIGNEE's  
Name(s)  
Address(es))

1) TOKYO INSTITUTE OF TECHNOLOGY

2-12-1, Ookayama, Meguro-ku, Tokyo 152-8550, Japan

2) TEIJIN LIMITED

2-4, Nakanoshima 3-chome, Kita-ku, Osaka-shi, Osaka 530-0005, Japan

3) Kanagawa Institute of Industrial Science and Technology

705-1, Shimoimaizumi, Ebina-shi, Kanagawa 243-0435, Japan

(hereinafter "ASSIGNEE"), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the invention entitled

(Title of  
Invention)

ELECTROLYTE MEMBRANE AND METHOD FOR PRODUCING SAME

relating to International Patent Application PCT/JP 2017 / 020368 and/or for which application for Letters Patent of the United States was executed on even date herewith or, if not so executed, was:

(Insert date  
of execution  
of application,  
if not  
concurrent)

(a) executed on \_\_\_\_\_;  
(b) filed on January 24, 2019  
Serial No. 16/320,354;

*Assignee's attorney is hereby authorized to insert in (b) the specified data, when known.*

and to said application and all Letters Patent(s) of the United States granted on said application and any continuation, division, renewal, substitute, reissue or reexamination application based thereon, for the full term or terms for which the said Letters Patent(s) may be granted and including any extensions thereof (collectively, hereinafter, "said application(s) and Letters Patent(s)").

The ASSIGNOR agree(s), when requested by said ASSIGNEE and without charge to but at the expense of said ASSIGNEE, to do all acts which the ASSIGNEE may deem necessary, desirable or expedient, for securing, maintaining and enforcing protection for said invention, including in the preparation and prosecution of said application(s) and the issuance of said Letters Patent(s), in any interference, reissue, reexamination, or public use proceeding, and in any litigation or other legal proceeding which may arise or be declared in relation to same, such acts to include but not be limited to executing all papers, including separate assignments and declarations, taking all rightful oaths, providing sworn testimony, and obtaining and producing evidence.

IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).

(Signatures)

1)	_____	Takeo Yamaguchi	_____
	(SIGNATURE)	(TYPE NAME)	(DATE)
2)	_____	Yuhei Oshiba	_____
	(SIGNATURE)	(TYPE NAME)	(DATE)
3)	_____	Hidenori Ohashi	_____
	(SIGNATURE)	(TYPE NAME)	(DATE)
4)	_____	Jin Tomatsu	_____
	(SIGNATURE)	(TYPE NAME)	(DATE)
5)	<u>Koji Furuya</u>	Koji Furuya	<u>10/29/2018</u>
	(SIGNATURE)	(TYPE NAME)	(DATE)
6)	<u>Takao Ohno</u>	Takao Ohno	<u>October 29, 2018</u>
	(SIGNATURE)	(TYPE NAME)	(DATE)
7)	<u>Mami Nanbu</u>	Mami Nanbu	<u>November 2, 2018</u>
	(SIGNATURE)	(TYPE NAME)	(DATE)
8)	_____	_____	_____
	(SIGNATURE)	(TYPE NAME)	(DATE)

PATENT