505330913 02/15/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5377694

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
TORU KIDOSAKI	08/03/2018
RYO SAKIMOTO	08/03/2018
KENJI KAWABATA	08/03/2018

RECEIVING PARTY DATA

Name: UBE INDUSTRIES, LTD.			
Street Address:	1978-96, OAZA KOGUSHI		
Internal Address:	YAMAGUCHI		
City:	UBE-SHI		
State/Country:	JAPAN		
Postal Code:	755-8633		

PROPERTY NUMBERS Total: 1

Property Type	Number							
Application Number:	16076248							

CORRESPONDENCE DATA

Fax Number: (949)760-9502

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: 949-760-0404 Email: efiling@knobbe.com

KNOBBE MARTENS OLSON & BEAR LLP **Correspondent Name:**

Address Line 1: 2040 MAIN STREET

Address Line 2: 14TH FLOOR

Address Line 4: **IRVINE, CALIFORNIA 92614**

ATTORNEY DOCKET NUMBER:	SHIGA31.005APC
NAME OF SUBMITTER:	NEIL S. BARTFELD
SIGNATURE:	/Neil S. Bartfeld/
DATE SIGNED:	02/15/2019

Total Attachments: 6

source=SHIGA31-005APC DeclarationAssignment#page1.tif source=SHIGA31-005APC_DeclarationAssignment#page2.tif

source=SHIGA31-005APC_DeclarationAssignment#page3.tif
source=SHIGA31-005APC_DeclarationAssignment#page4.tif
source=SHIGA31-005APC_DeclarationAssignment#page5.tif
source=SHIGA31-005APC_DeclarationAssignment#page6.tif

2017P0012*USO* 09P-75993 US 0/A 1/2 ()

COMBINED DECLARATION & ASSIGNMENT UNDER 37 CFR 1.63(e)

Attorney Reference No.: SHIGA31.005APC

Page 1 of 2

Title: POLYOLEFIN MICRO-POROUS FILM, SEPARATOR FILM FOR POWER-STORAGE DEVICE,

AND POWER-STORAGE DEVICE

Legal Names of All Inventors: Toru KIDOSAKI; Ryo SAKIMOTO; and Kenji KAWABATA

Please Direct All Correspondence to Customer Number 20995

Declaration of Inventors

As an individual executing this Declaration, I hereby declare that:

This Declaration is directed to the invention identified above that: (check one)

	Is attached, w	here "attached" means filed concurrently with.
	Was filed on _	as U.S. Application No
[Jan	Was filed on	February 7, 2017, as International Application No. PCT/JP2017/004356

The above-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.

Assignment from Inventors

WHEREAS, the inventor(s) identified above (individual(s) hereinafter "ASSIGNOR") invented certain new and useful improvements, technology, inventions, developments, ideas or discoveries while under an obligation to assign related to the title identified above (collectively hereinafter referred to as the "Work") for which the application identified above has been or will be filed (hereinafter the "Application").

AND WHEREAS, <u>UBE INDUSTRIES</u>, <u>LTD.</u> with its principal place of business at <u>1978-96</u>, <u>Oaza Kogushi</u>, <u>Ube-shi</u>, <u>Yamaguchi 755-8633 Japan</u> (hereinafter the "ASSIGNEE"), desires to acquire the entire right, title, and interest in and to the Application and the Work.

NOW, THEREFORE, for good and valuable consideration of which receipt is hereby acknowledged, ASSIGNOR hereby acknowledges that ASSIGNOR has sold, assigned, transferred and set over, and by these presents does hereby sell, assign, transfer and set over, unto said ASSIGNEE, its successors, legal representatives and assigns, the entire right, title, and interest throughout the world in the Application and the Work, including all patent properties filed or issued upon the Application and the Work; where "Patent Properties" include, but are not limited to:

all	provis	ional	applications	relating	thereto	(including	but	not	limited	to U.	5. ł	Provisional	Application	3
No	o(s)			file	ed				(respe	ctively	if	plural appl	ications));	

all nonprovisional applications claiming priority to aforementioned provisional(s) and/or the present Application, including, all divisions, continuations, continuations-in-part, and reissues, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof; and

all rights of priority under International Conventions and any related Letters Patent which may hereafter be granted or filed in any country or countries foreign to the United States, all extensions, renewals and reissues thereof.

ASSIGNOR hereby acknowledges the ASSIGNEE as the Applicant for all aforementioned patent properties, and authorizes and requests the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as

2017190012USO 058-75933 USDA-72

COMBINED DECLARATION & ASSIGNMENT UNDER 37 CFR 1.63(e)

Attorney Reference No.: SHIGA31.005APC

Page 2 of 2

Title: POLYOLEFIN MICRO-POROUS FILM, SEPARATOR FILM FOR POWER-STORAGE DEVICE,

AND POWER-STORAGE DEVICE

Legal Names of All Inventors: Toru KIDOSAKI; Ryo SAKIMOTO; and Kenji KAWABATA

Please Direct All Correspondence to Customer Number 20995

aforesaid, to issue all related Letters Patent to the ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND ASSIGNOR DOES HEREBY sell, assign, transfer, and convey to ASSIGNEE, its successors, legal representatives, and assigns all claims for damages and all remedies arising out of any violation of the rights assigned hereby that may have accrued prior to the date of assignment to ASSIGNEE, or may accrue hereafter, including, but not limited to, the right to sue for, collect, and retain damages for past infringements of said Letters Patent before or after issuance.

AND ASSIGNOR DOES HEREBY covenant and agree that ASSIGNOR will communicate to said ASSIGNEE, its successors, legal representatives and assigns, any facts known to ASSIGNOR respecting the Work, and testify in any legal proceeding, assist in the preparation of any other Patent Property relating to the Application and the Work or any improvements made thereto, sign/execute all lawful papers, and generally do everything possible to aid the ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for the Work in all countries.

Legal Name of Inventor:	Toru	KIDOSAKI	and a second sec				
Signature of Inventor:	Toru	Kidosaki	E	Date:	August	з,	2018

13855866 082412

COMBINED DECLARATION & ASSIGNMENT

UNDER 37 CFR 1.63(e) Attorney Reference No.: SHIGA31.005APC Page 1 of 2 Title: POLYOLEFIN MICRO-POROUS FILM, SEPARATOR FILM FOR POWER-STORAGE DEVICE, AND POWER-STORAGE DEVICE Legal Names of All Inventors: Toru KIDOSAKI; Ryo SAKIMOTO; and Kenji KAWABATA Please Direct All Correspondence to Customer Number 20995 Declaration of Inventors As an individual executing this Declaration, I hereby declare that: This Declaration is directed to the invention identified above that: (check one)

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

☐ Is attached, where "attached" means filed concurrently with.

☐ Was filed on as U.S. Application No. ______

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

Was filed on February 7, 2017 as International Application No. PCT/JP2017/004356.

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.

Assignment from Inventors

WHEREAS, the inventor(s) identified above (individual(s) hereinafter "ASSIGNOR") invented certain new and useful improvements, technology, inventions, developments, ideas or discoveries while under an obligation to assign related to the title identified above (collectively hereinafter referred to as the "Work") for which the application identified above has been or will be filed (hereinafter the "Application").

AND WHEREAS, UBE INDUSTRIES, LTD. with its principal place of business at 1978-96, Oaza Kogushi, Ube-shi, Yamaguchi 755-8633 Japan (hereinafter the "ASSIGNEE"), desires to acquire the entire right, title, and interest in and to the Application and the Work.

NOW, THEREFORE, for good and valuable consideration of which receipt is hereby acknowledged, ASSIGNOR hereby acknowledges that ASSIGNOR has sold, assigned, transferred and set over, and by these presents does hereby sell, assign, transfer and set over, unto said ASSIGNEE, its successors, legal representatives and assigns, the entire right, title, and interest throughout the world in the Application and the Work, including all patent properties filed or issued upon the Application and the Work; where "Patent Properties" include, but are not limited to:

all	provisio	nai applications	relating thereto	(incidand pr	it not iimitea	to 0.5, Flori	sional Application	ł
No	(s).		filed		(respe	ctively if plura	I applications));	
	· / ~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		***************************************				

all nonprovisional applications claiming priority to aforementioned provisional(s) and/or the present Application, including, all divisions, continuations, continuations-in-part, and reissues, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof; and

all rights of priority under International Conventions and any related Letters Patent which may hereafter be granted or filed in any country or countries foreign to the United States, all extensions, renewals and reissues thereof.

ASSIGNOR hereby acknowledges the ASSIGNEE as the Applicant for all aforementioned patent properties, and authorizes and requests the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as

COMBINED DECLARATION & ASSIGNMENT UNDER 37 CFR 1.63(e)

Attorney Reference No.: SHIGA31.005APC

Page 2 of 2

Title: POLYOLEFIN MICRO-POROUS FILM, SEPARATOR FILM FOR POWER-STORAGE DEVICE, AND POWER-STORAGE DEVICE

Legal Names of All Inventors: Toru KIDOSAKI; Ryo SAKIMOTO; and Kenji KAWABATA

Please Direct All Correspondence to Customer Number 20995

aforesaid, to issue all related Letters Patent to the ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND ASSIGNOR DOES HEREBY sell, assign, transfer, and convey to ASSIGNEE, its successors, legal representatives, and assigns all claims for damages and all remedies arising out of any violation of the rights assigned hereby that may have accrued prior to the date of assignment to ASSIGNEE, or may accrue hereafter, including, but not limited to, the right to sue for, collect, and retain damages for past infringements of said Letters Patent before or after issuance.

AND ASSIGNOR DOES HEREBY covenant and agree that ASSIGNOR will communicate to said ASSIGNEE, its successors, legal representatives and assigns, any facts known to ASSIGNOR respecting the Work, and testify in any legal proceeding, assist in the preparation of any other Patent Property relating to the Application and the Work or any improvements made thereto, sign/execute all lawful papers, and generally do everything possible to aid the ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for the Work in all countries.

Legal Name of Inventor: _	Ryo SAI	KIMOTO					
Signature of Inventor:	Ryo	SAKI	MOTO	_ Date:	August	3,	2018

13855866 082412

COMBINED DECLARATION & ASSIGNMENT UNDER 37 CFR 1.63(e)

Attorney Reference No.: SHIGA31.005APC

Page 1 of 2

Title: POLYOLEFIN MICRO-POROUS FILM, SEPARATOR FILM FOR POWER-STORAGE DEVICE,

AND POWER-STORAGE DEVICE

Legal Names of All Inventors: Toru KIDOSAKI; Ryo SAKIMOTO; and Kenji KAWABATA

Please Direct All Correspondence to Customer Number 20995

Declaration of Inventors

As an individual executing this Declaration, I hereby declare that:								
This Declaration is directed to the invention identified above that: (check one)								
☐ Is attached, where "attached" means filed concurrently with.								
☐ Was filed on as U.S. Application No								
☑ Was filed on February 7, 2017 as International Application No. PCT/JP2017/004356.								
The above-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.

Assignment from Inventors

WHEREAS, the inventor(s) identified above (individual(s) hereinafter "ASSIGNOR") invented certain new and useful improvements, technology, inventions, developments, ideas or discoveries while under an obligation to assign related to the title identified above (collectively hereinafter referred to as the "Work") for which the application identified above has been or will be filed (hereinafter the "Application").

AND WHEREAS, UBE INDUSTRIES, LTD. with its principal place of business at 1978-96, Qaza Kogushi, Ube-shi, Yamaguchi 755-8633 Japan (hereinafter the "ASSIGNEE"), desires to acquire the entire right, title, and interest in and to the Application and the Work.

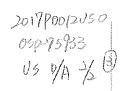
NOW, THEREFORE, for good and valuable consideration of which receipt is hereby acknowledged, ASSIGNOR hereby acknowledges that ASSIGNOR has sold, assigned, transferred and set over, and by these presents does hereby sell, assign, transfer and set over, unto said ASSIGNEE, its successors, legal representatives and assigns, the entire right, title, and interest throughout the world in the Application and the Work, including all patent properties filed or issued upon the Application and the Work; where "Patent Properties" include, but are not limited to:

all pro	ovisional	applications	relating	thereto	(including	but	not	limited	to t	J.S.	Provisiona	il Application	
No(s)	•		file	∌d				(respe	ctiv	ely if	plural app	lications));	

all nonprovisional applications claiming priority to aforementioned provisional(s) and/or the present Application, including, all divisions, continuations, continuations-in-part, and reissues, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof; and

all rights of priority under International Conventions and any related Letters Patent which may hereafter be granted or filed in any country or countries foreign to the United States, all extensions, renewals and reissues thereof.

ASSIGNOR hereby acknowledges the ASSIGNEE as the Applicant for all aforementioned patent properties, and authorizes and requests the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as



COMBINED DECLARATION & ASSIGNMENT UNDER 37 CFR 1.63(e)

Attorney Reference No.: SHIGA31.005APC

Page 2 of 2

Title: POLYOLEFIN MICRO-POROUS FILM, SEPARATOR FILM FOR POWER-STORAGE DEVICE, AND POWER-STORAGE DEVICE

Legal Names of All Inventors:

Toru KIDOSAKI; Ryo SAKIMOTO: and Kenji KAWABATA

Please Direct All Correspondence to Customer Number 20995

aforesaid, to issue all related Letters Patent to the ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND ASSIGNOR DOES HEREBY sell, assign, transfer, and convey to ASSIGNEE, its successors, legal representatives, and assigns all claims for damages and all remedies arising out of any violation of the rights assigned hereby that may have accrued prior to the date of assignment to ASSIGNEE, or may accrue hereafter, including, but not limited to, the right to sue for, collect, and retain damages for past infringements of said Letters Patent before or after issuance.

AND ASSIGNOR DOES HEREBY covenant and agree that ASSIGNOR will communicate to said ASSIGNEE, its successors, legal representatives and assigns, any facts known to ASSIGNOR respecting the Work, and testify in any legal proceeding, assist in the preparation of any other Patent Property relating to the Application and the Work or any improvements made thereto, sign/execute all lawful papers, and generally do everything possible to aid the ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for the Work in all countries.

Legal Name of Inventor:

Kenji KAWABATA

Signature of Inventor.

Date: August 3, 2018

13855866 082412

> PATENT REEL: 048342 FRAME: 0538

RECORDED: 02/15/2019