PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5121596

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
YOSHINORI SUGIMURA	05/15/2018
KAZUNORI KUROSAWA	05/15/2018
KAZUO YAMATO	05/15/2018
JUNICHI KUGIMOTO	05/15/2018
JOJI KAWAI	05/14/2018
WANNA SIRISUKSUKON	05/09/2018
NANTARIYA NGAMSUP	05/08/2018

RECEIVING PARTY DATA

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City:	UBE-SHI, YAMAGUCHI
State/Country:	JAPAN
Postal Code:	755-8633

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15781055

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NAME OF SUBMITTER:	NEIL S. BARTFELD
SIGNATURE:	/Neil S. Bartfeld/
DATE SIGNED:	08/31/2018

PAIENI **REEL: 046770 FRAME: 0307** 505074840

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

Total Attachments: 3

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PATENT REEL: 046770 FRAME: 0308

COMBINED DECLARATION & ASSIGNMENT UNDER 37 CFR 1.63(e)

Attorney Reference No.: KITO59.084APC

Page 1 of 2

Title: METHOD FOR PRODUCING KETONE AND/OR ALCOHOL, AND SYSTEM THEREOF

Legal Names of All Inventors: Yoshinori SUGIMURA, et al.

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 December 6, 2016 as International Application No. PCT/JP2016/086217.					
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 white 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</u>, <u>755-8633</u>, <u>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	pro	visional	applications	relating to	hereto	(including	but	not	limited	to t	J.S.	Provisiona	 Application
No	(s).			file	d				(respe	ctive	y if	plural app	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 aforesaid, to issue all related Letters Patent to the ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

PATENT REEL: 046770 FRAME: 0309

COMBINED DECLARATION & ASSIGNMENT UNDER 37 CFR 1.63(e)

Attorney Reference No.: KITO59.084APC

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Title: METHOD FOR PRODUCING KETONE AND/OR ALCOHOL, AND SYSTEM THEREOF

Legal Names of All Inventors: Yoshinori SUGIMURA, et al.

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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.

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Signature of Inventor: Yoshinori Sugimura	Date: May 15. 2018
2 Legal Name of Inventor: Kazunori KUROSAWA	
Signature of Inventor: Kazumen' Kuro Sawa	Date: May 15 2018
3. Legal Name of Inventor: Kazuo YAMATO	
Signature of Inventor: Kazuo Yamato	Date: <u>Hay 15, 2018</u>
4. Legal Name of Inventor: Junichi KUGIMOTO	
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5. Legal Name of Inventor: Joji KAWAI	
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6. Legal Name of Inventor: Wanna SIRISUKSUKON	·
Signature of Inventor:	Date:
7. Legal Name of Inventor: Nantariya NGAMSUP	
Signature of Inventor:	Date:

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COMBINED DECLARATION & ASSIGNMENT UNDER 37 CFR 1.63(e)

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1.Legal Name of Inventor: Yoshinori SUGIMURA	
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Signature of inventor:	Date:
6.Legal Name of Inventor: Wanna SJRHSUKSUKON	
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7.Legal Name of Inventor: Nantariya NGAMSUP	
Signature of Inventor:	Oate:O3 May 2018
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> PATENT REEL: 046770 FRAME: 0311

RECORDED: 08/31/2018