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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3841749

SUBMISSION TYPE:			EW ASSIGNMENT			
NATURE OF CONVEYANCE:		AS	ASSIGNMENT			
CONVEYING PARTY [ΟΑΤΑ					
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TAKEHIRO HIURA						03/23/2016
AKIFUMI HASEGAWA						03/24/2016
TAKEHIKO CHIKAMORI						03/23/2016
RECEIVING PARTY D	ΔΤΔ					
Name: AJINOMOTO			O., INC.			
Street Address:		15-1, KYOBASHI 1-CHOME, CHUO-KU				
City:						
State/Country:	JAPAN	1				
Postal Code:	104-83	815				
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Att'y Ref. No.: US-542

COMBINED ASSIGNMENT AND DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (JOINT)

DECLARATION

As a below named inventor, I hereby declare that:

This declaration is directed to:

METHOD FOR PRODUCING 1.5-PENTANEDIAMINE

which (check only one item below):

- is attached hereto and/or is deposited in the United States Patent and Trademark Office on even date herewith.

was filed as United States Patent application Number <u>15/048,287</u> on <u>February 19, 2016</u> and was amended on _____ (if applicable).

 \boxtimes

was filed as PCT International application Number _____ on _____ and was amended on _____ (if applicable).

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

I believe that I am the original inventor (if only one name is listed below) or an original joint inventor (if plural names are listed below) 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

THIS ASSIGNMENT, by <u>Takehiro HIURA, Akifumi HASEGAWA</u>, and <u>Takehiko CHIKAMORI</u>, (hereinafter referred to as "the Assignors"), respectively, witnesseth:

WHEREAS, the Assignors have invented certain new and useful improvements set forth in an application for Letters Patent of the United States identified above,

WHEREAS, <u>Afinomoto, Co. Inc.</u>, a corporation duly organized under and pursuant to the laws of <u>Japan</u> and having a principal place of business at <u>15-1</u>, <u>Kyobashi 1-chome</u>, <u>Chuo-ku</u>, <u>Tokyo 104-8315</u>, <u>Japan</u> (hereinafter referred to as "the Assignee"), is desirous of acquiring the entire right, title, and interest in and to said inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications, including provisional applications for Letters Patent of the United States or other countries claiming priority to said application, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon.

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, the Assignors have sold, assigned,

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PATENT REEL: 038350 FRAME: 0499

Att'y Ref. No.: US-542

transferred, and set over, and by these presents do sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns the entire right, title, and interest in and to the abovementioned inventions, the right to file applications on said inventions and the entire right, fitle and interest in and to any applications for Letters Patent of the United States or other countries claiming priority to said applications, and any and all Letters Patent or Patents of the United States of America and all foreign countries that may be granted therefor and thereon, and in and to any and all applications claiming priority to said applications, divisions, continuations, and continuations-in-part of said applications, and reissues and extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by the Assignee, for its own use and behalf and the use and behalf of its successors, legal representatives, and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted as fully and entirely as the same would have been held and enjoyed by the Assignors had this sale and assignment not been made;

AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, the Assignors are the sole and lawful owners of the entire right, title, and interest in and to the inventions set forth in said applications and said applications, including provisional applications, above-mentioned, and that the same are unencumbered, and that the Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth;

AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns that the Assignors will, whenever counsel of the Assignee, or the counsel of its successors, legal representatives, and assigns, shall advise that any proceeding in connection with said inventions or said applications for Letters Patent or Patents, or any proceeding in connection with Letters Patent or Patents for said inventions in any country, including interference proceedings, is lawful and desirable, or that any application claiming priority to said application, division, continuation, or continuation-in-part of any applications for Letters Patent or Patents, or any reissue or extension of any Letters Patent or Patents to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement, and defense of Letters Patent or Patents for said inventions, without charge to the Assignee, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns;

AND the Assignors hereby authorize and request the attorneys of Cermak Nakajima McGowan LLP, of Alexandria, Virginia, to insert in the spaces provided above the filing date, application number, and attorney's docket number of said application when known.

AND the Assignors hereby request the Commissioner of Patents to issue any and all said Letters Patent of the United States to the Assignee as the Assignee of said inventions, the Letters Patent to be issued for the sole use and behalf of the Assignee, its successors, legal representatives, and assigns,

DATE 3/23/2016 SIGNATURE OF FIRST INVENTOR Jakehiro Hiura

DATE 3/24/2016 SIGNATURE OF SECOND INVENTOR ARifumi Hasegawa

DATE______ SIGNATURE OF THIRD INVENTOR

TAKEHIKO CHIKAMORI

- 2 -

PATENT REEL: 038350 FRAME: 0500

Att'y Ref. No.: US-542

COMBINED ASSIGNMENT AND DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (JOINT)

DECLARATION

As a below named inventor, I hereby declare that:

This declaration is directed to:

METHOD FOR PRODUCING 1,5-PENTANEDIAMINE

which (check only one item below):

- is attached hereto and/or is deposited in the United States Patent and Trademark Office on even date herewith.
- was filed as United States Patent application Number <u>15/048,287</u> on <u>February 19, 2016</u> and was amended on _____ (if applicable).
- was filed as PCT International application Number _____ on _____ and was amended on _____ (if applicable).

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

I believe that I am the original inventor (if only one name is listed below) or an original joint inventor (if plural names are listed below) 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

THIS ASSIGNMENT, by <u>Takehiro HIURA, Akifumi HASEGAWA</u>, and <u>Takehiko CHIKAMORi</u>, (hereinafter referred to as "the Assignors"), respectively, witnesseth:

WHEREAS, the Assignors have invented certain new and useful improvements set forth in an application for Letters Patent of the United States identified above,

WHEREAS, <u>Aiinomoto, Co. Inc.</u>, a corporation duly organized under and pursuant to the laws of <u>Japan</u> and having a principal place of business at <u>15-1. Kyobashi 1-chome, Chuo-ku, Tokyo 104-8315</u>, <u>Japan</u> (hereinafter referred to as "the Assignee"), is desirous of acquiring the entire right, title, and interest in and to said inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications, including provisional applications for Letters Patent of the United States or other countries claiming priority to said application, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon.

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, the Assignors have sold, assigned,

PATENT REEL: 038350 FRAME: 0501 2016年 4月22日 16時09分

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Att'y Ref. No.: US-542

transferred, and set over, and by these presents do sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns the entire right, title, and interest in and to the abovementioned inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications for Letters Patent of the United States or other countries claiming priority to said applications, and any and all Letters Patent or Patents of the United States of America and all foreign countries that may be granted therefor and thereon, and in and to any and all applications, and applications, entitude states or other countries claiming priority to said applications, divisions, continuations, and continuations-in-part of said applications, and reissues and extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by the Assignee, for its own use and behalf and the use and behalf of its successors, legal representatives, and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted as fully and entirely as the same would have been held and enjoyed by the Assigners had this sale and assignment not been made;

AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, the Assignors are the sole and lawful owners of the entire right, title, and interest in and to the inventions set forth in said applications and said applications, including provisional applications, above-mentioned, and that the same are unencumbered, and that the Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth;

AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns that the Assigners will, whenever counsel of the Assignee, or the counsel of its successors, legal representatives, and assigns, shall advise that any proceeding in connection with said inventions or said applications for Letters Patent or Patents, or any proceeding in connection with Letters Patent or Patents for said inventions in any country, including interference proceedings, is lawful and desirable, or that any application claiming priority to said application, division, continuation, or continuation-in-part of any applications for Letters Patent or Patents, or any reissue or extension of any Letters Patent or Patents to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement, and defense of Letters Patent or Patents for said inventions, without charge to the Assignee, its successors, legal representatives, and assigns;

AND the Assigners hereby authorize and request the attorneys of Cermak Nakajima McGowan LLP, of Alexandria, Virginia, to insert in the spaces provided above the filing date, application number, and attorney's docket number of said application when known.

AND the Assignors hereby request the Commissioner of Patents to issue any and all said Letters Patent of the United States to the Assignee as the Assignee of said inventions, the Letters Patent to be issued for the sole use and behalf of the Assignee, its successors, legal representatives, and assigns.

DATE_	SIGNATURE OF FIRST INVENTOR
	TAKEHIRO HIJIRA
DATE_	SIGNATURE OF SECOND INVENTOR
	AKIFUMI HASEGAWA
DATE_	3/23/2016 SIGNATURE OF THIRD INVENTOR Takehiko Chikamori
	TAKEHIKO CHIKAMOBI

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PATENT REEL: 038350 FRAME: 0502

RECORDED: 04/22/2016