502971266 09/11/2014

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3017865

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
BIO-ENERGY CORPORATION	08/26/2014

RECEIVING PARTY DATA

Name:	KANSAI CHEMICAL ENGINEERING CO., LTD.
Street Address:	9-7, MINAMINANAMATSUCHO 2-CHOME
City:	AMAGASAKI-SHI, HYOGO
State/Country:	JAPAN
Postal Code:	660-0053

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12294376

CORRESPONDENCE DATA

Fax Number: (412)945-5933

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: 412-471-8815

Email: assignments@webblaw.com

Correspondent Name: KENT E. BALDAUF, THE WEBB LAW FIRM, P.C.

Address Line 1: ONE GATEWAY CENTER

Address Line 2:420 FT. DUQUESNE BLVD, SUITE 1200Address Line 4:PITTSBURGH, PENNSYLVANIA 15222

ATTORNEY DOCKET NUMBER:	3274-082820
NAME OF SUBMITTER:	KENT E. BALDAUF
SIGNATURE:	/kent e baldauf/
DATE SIGNED:	09/11/2014

Total Attachments: 10

source=recordationwithassignment#page1.tif source=recordationwithassignment#page2.tif source=recordationwithassignment#page3.tif source=recordationwithassignment#page4.tif source=recordationwithassignment#page5.tif source=recordationwithassignment#page6.tif

502971266 PATENT REEL: 033717 FRAME: 0385

source=recordationwithassignment#page7.tif source=recordationwithassignment#page8.tif source=recordationwithassignment#page9.tif source=recordationwithassignment#page10.tif

> PATENT REEL: 033717 FRAME: 0386

	DRM COVER SHEET S ONLY
	se record the attached documents or the new address(es) below.
1. Name of conveying party(ies) BIO-ENERGY CORPORATION	2. Name and address of receiving party(ies) Name: KANSAI CHEMICAL ENGINEERING CO., LTD. Internal Address: 9-7, Minaminanamatsucho 2-chome
A. Patent Application No.(s) 12/294,376	Street Address: Amagasaki-shi, Hyogo 660-0053 City:
Additional numbers at 5. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: 1
Name: Kent E. Baldauf	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 0
Internal Address: The Webb Law Firm Street Address: One Gateway Center 420 Ft. Duquesne Blvd., Ste 1200	Authorized to be charged by credit card Authorized to be charged to deposit account ✓ Enclosed None required (government interest not affecting title)
City: Pittsburgh	8. Payment Information
State: <u>PA</u> Zip: <u>15222</u>	a. Credit Card Last 4 Numbers 1916 Expiration Date 05/2015
Phone Number: 412-471-8815 Fax Number: 412-945-5933 Email Address: assignments@webblaw.com	b. Deposit Account Number <u>23-0650</u> Authorized User Name
9. Signature: Kent E. Baldauf Name of Person Signing	September 11, 2014 Date Total number of pages including cover sheet, attachments, and documents:

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to: Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

ASSIGNMENT

WHEREAS, BIO-ENERGY CORPORATION, a corporation of Japan, located at 9-7, Minaminanamatsucho 2-chome, Amagasaki-shi, Hyogo 660-0053, Japan (hereinafter called "Assignor"), is a joint owner, by assignment (Reel/Frame 021581/0018), along with OSAKA UNIVERSITY, an academic institution of Japan, located at 1-1, Yamadaoka, Suitashi, Osaka 565-0871, Japan, of United States Patent Application Serial No. 12/294,376 filed September 24, 2008, entitled "Method for Separation of Lactic Acid Component from Lactic Acid Fermentation Liquor, and Separation Apparatus"; and

WHEREAS, KANSAI CHEMICAL ENGINEERING CO., LTD., a corporation of Japan, having a place of business at 9-7, Minaminanamatsucho 2-chome, Amagasaki-shi, Hyogo 660-0053 JAPAN, (hereinafter called "Assignee"), are desirous of acquiring part of BIO-ENERGY CORPORATION's right, title and interest in and to said United States Patent Application Serial No. 12/294,376 and the invention covered thereby.

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, joint Assignor, BIO-ENERGY CORPORATION, has sold, assigned, transferred and set over, and does hereby sell, assign, transfer and set over to joint Assignee KANSAI CHEMICAL ENGINEERING CO., LTD.'s part interest in United States Patent Application Serial No. 12/294,376 and any continuations, divisionals and reissues thereof, and the inventions covered thereby, the same to be held and enjoyed by Assignee for its own use and enjoyment, and for the use and enjoyment of its successors, assigns or other legal representatives, to the end of the term for which any patent may be granted or reissued as fully and entirely as the same would have been held and enjoyed by assignor, if this assignment and sale had not been made; together with all claims for damages by reason of past infringement of any such patent, with the right to sue for and collect the same for its own use and enjoyment, and for use and enjoyment of its successors, assigns or other legal representatives.

PATENT REEL: 033717 FRAME: 0388

Serial No. 12/294,376 Attorney Docket No. 3274-082820

AND, Assignor hereby authorizes and requests the United States Commissioner of Patents and Trademarks to record this Assignment of the part interest, and hereby covenants that it has full right to convey its interest herein assigned, and that it has not executed, and will not execute, any agreements inconsistent therewith.

A copy of the original Assignment and Notice of Recordation is attached hereto.

IN TESTIMONY WHEREOF, Assignor has caused this Assignment to be executed effective the <u>26th</u> day of <u>August</u>, 2014.

BIO-ENERGY CORPORATION

Name: Hideo Nod

Title: President

Witness: Eigou. Suyama

TO: KENT E. BALDAUF COMPANY:

) KOPPERS BUILDING





United States Patent and Trademark Office

Under Secretary of Commerce for Intellectual Property and Director of the United States Patent and Trademark Office



SEPTEMBER 24, 2008

500656873A

PTAS

KENT E. BALDAUF 700 KOPPERS BUILDING 436 SEVENTH AVENUE PITTSBURGH, PA 15219

> UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT SERVICES BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 09/24/2008

REEL/FRAME: 021581/0018

NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS). DOCKET NUMBER: 3274-082820

ASSIGNOR:

UYAMA, HIROSHI

DOC DATE: 09/20/2008

ASSIGNOR:

NODA, HIDEO

DOC DATE: 09/17/2008

ASSIGNOR:

TERADA, TAKAHIKO

DOC DATE: 09/22/2008

ASSIGNEE:

BIO-ENERGY CORPORATION
9-7, MINAMINANAMATSUCHO 2-CHOME,
AMAGASAKI-SHI
HYOGO, JAPAN 660-0053

P.O. Box 1450, Alexandria, Virginia 22313-1450 - www.uspto.gov

PATENT

USPTO 9/24/2008 8:32:50 PM PAGE 3/005 Fax Server

TO: KENT E. BALDAUF COMPANY: () KOPPERS BUILDING

021581/0018 PAGE 2

ASSIGNEE:

OSAKA UNIVERSITY 1-1, YAMADAOKA, SUITA-SHI OSAKA, JAPAN 565-0871

SERIAL NUMBER: 12294376

FILING DATE:

PATENT NUMBER:

ISSUE DATE:

TITLE: METHOD FOR SEPARATION OF LACTIC ACID COMPONENT FROM LACTIC ACID

FERMENTATION LIQUOR, AND SEPARATION APPARATUS

ASSIGNMENT SERVICES BRANCH PUBLIC RECORDS DIVISION

PATENT REEL: 033717 FRAME: 0391 9/24/2008 8:32:50 PM PAGE

4/005

Fax Server

TO: KENT E. BALDAUF COMPANY: () KOPPERS BUILDING

PATENT	ASSIGN	IMENT
---------------	---------------	--------------

Electronic Version v1.1 Stylesheet Version v1.1

09/24/2008 500656873

SUBMISSION TYPE: **NEW ASSIGNMENT**

NATURE OF CONVEYANCE: ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Hiroshi Uyama	09/20/2008
Hideo Noda	09/17/2008
Takahiko Terada	09/22/2008

RECEIVING PARTY DATA

Name:	Bio-energy Corporation
Street Address:	9-7, Minaminanamatsucho 2-chome, Amagasaki-shi
City:	Hyogo
State/Country:	JAPAN
Postal Code:	660-0053

Name:	Osaka University
Street Address:	1-1, Yamadaoka, Suita-shi
City:	Osaka
State/Country:	JAPAN
Postal Code:	565-0871

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12294376

CORRESPONDENCE DATA

Fax Number:

(412)471-4094

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone:

412-471-8815

Email:

webblaw@webblaw.com

Correspondent Name:

Kent E. Baldauf

Address Line 1:

700 KOPPERS BUILDING

Address Line 2:

436 SEVENTH AVENUE

PATENT

KENT E. BA	LDAUF COMPANY:	() KOPPERS BUILDING	
Address Line	e4: PITTSBUI	RGH, PENNSYLVANIA 15219	
ATTORNEY	DOCKET NUMBER:	3274-082820	
NAME OF S	JBMITTER:	Kent E. Baldauf	
Total Attachr	nents: 2		

9/24/2008 8:32:50 PM PAGE

5/005

Fax Server

USPTO

source=RECCOVER#page1.tif source=ASSIGN#page1.tif

PATENT

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date	
Hiroshi Uyama	09/20/2008	
Hideo Noda	09/17/2008	
Takahiko Terada	09/22/2008	

RECEIVING PARTY DATA

Name:	Bio-energy Corporation	
Street Address:	9-7, Minaminanamatsucho 2-chome, Amagasaki-shi	
City:	Нуодо	
State/Country:	JAPAN	
Postal Code:	660-0053 .	

Name:	Osaka University		
Street Address:	1–1, Yamadaoka, Suita-shi		
City:	Osaka		
State/Country:	JAPAN		
Postal Code:	565-0871		

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12294376

PATENT

CORRESPONDENCE DATA

Fax Number:

(412)471-4094

Correspondence will be sent via US Mail when the fax attempt is

unsuccessful.

Phone:

412-471-8815

Email:

webblaw@webblaw.com

Correspondent Name: Kent E. Baldauf

Address Line 1:

700 KOPPERS BUILDING

Address Line 2: Address Line 4:

436 SEVENTH AVENUE PITTSBURGH, PENNSYLVANIA 15219

ATTORNEY DOCKET NUMBER:

3274-082820

NAME OF SUBMITTER:

Kent E. Baldauf

Signature:

/kent e baldauf/

Date:

09/24/2008

Total Attachments: 2

source=RECCOVER#page1.tif

source=ASSIGN#page1.tif

RECEIPT INFORMATION

EPAS ID:

PAT671301

Receipt Date:

09/24/2008

Fee Amount:

\$40

PATENT

ASSIGNMENT

WHEREAS, WE, Hiroshi UYAMA residing in Osaka, Japan, Hideo NODA, and Takahiko TERADA both residing in Hyogo, Japan, have invented certain new and useful improvements in the invention entitled "Method for Separation of Lactic Acid Component from Lactic Acid Fermentation Liquor, and Separation Apparatus" for which we have this day executed an application for United States Letters Patent as initiation of the national phase of International Application No. PCT/JP2007/055165, filed March 8, 2007;

AND, WHEREAS Bio-energy Corporation, a corporation of Japan, having a place of business at 9-7, Minaminanamatsucho 2-chome, Amagasaki-shi, Hyogo 660-0053 JAPAN, and Osaka University a corporation of Japan, having a place of business at 1-1, Yamadaoka, Suita-shi, Osaka 565-0871 JAPAN hereinafter called the "assignee", is desirous of acquiring the entire right, title, and interest in and to said application and the inventions and improvements therein disclosed.

NOW, THEREFORE, for good and valuable consideration paid to us by said assignee, the receipt of which is hereby acknowledged, we do hereby assign, sell, transfer, and set over unto said assignee the entire right, title and interest in and to said application and the inventions and improvements therein disclosed for the United States and all foreign countries and any Letters Patent which may issue therefor in the United States and all foreign countries and all divisions, reissues, continuations, continuations-in-part, renewals, and/or extensions thereof, said assignee to have and to hold the interests herein assigned to the full ends of the terms of said Letters Patent and any and all divisions, reissues, continuations, continuations-in-part, renewals, and/or extensions thereof, respectively, as fully and entirely as the same would have been held and enjoyed by us had this assignment not been made.

The Commissioner for Patents is requested to issue such Letters Patent in accordance herewith. We covenant that we are the lawful owners of the said application, inventions, and improvements, that the same are unencumbered, that no license has been granted to make, use, or vend the said inventions or improvements or any of them, and that we have the full right to make this assignment.

And for the consideration aforesaid, we agree jointly and individually that we will communicate to said assignee or the representatives thereof any facts known to us respecting said inventions and improvements, and will, upon request, but without expense to us, testify in any legal proceedings, sign all lawful papers, execute all divisional, reissue, continuation, continuation-in-part, renewal, and/or extension applications, make all rightful oaths, and generally do all other and further lawful acts, deemed necessary or expedient by said assignee or by counsel for said assignee, to assist or enable said assignee to obtain and enforce full benefits from the rights and interests herein assigned. This assignment shall be binding upon our heirs, executors, administrators, and/or assigns, and shall inure to the benefit of the heirs, executors, administrators, successors, and/or assigns, as the case may be, of said assignee.

Date 20, 09, 2008	Inventor_	Hirosh Wyane.	
Date 17.09.2008	Inventor	Hiroshi UYAMA	
Date 11,0/, 2008	mvemor	Hideo NODA	
Date 22,09,2008	Inventor	Zahahiko Zenda Takahiko TERADA	
/W0172242 11		Takahiko TERADA	PATENT

RECORDED: 09/11/2014 REEL: 033717 FRAME: 0396