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To the Director of the U.S. Patent and

103562658

Documents or the new address(es) below.

## 1. Name of conveying party(ies)

Yoshitaka ARITA  
Hideaki TSUNEKI  
Hiroto KASUGA  
Masaki OKADA  
Masaru KIRISHIKIAdditional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

## 3. Nature of conveyance/Execution Date(s):

Execution Date(s) May 26, 2009

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Joint Research Agreement  
☐ Government Interest Assignment  
☐ Executive Order 9424, Confirmatory License  
☐ Other \_\_\_\_\_

## 2. Name and address of receiving party(ies)

Name: Nippon Shokubai Co., Ltd.

Internal Address: \_\_\_\_\_

Street Address: 1-1, Koraihashi 4-chome, Chuo-kuCity: Osaka-shiState: OsakaCountry: JAPAN Zip: 541-0043Additional name(s) & address(es) attached? ☐ Yes ☒ No

## 4. Application or patent number(s):

A. Patent Application No.(s)

☒ This document is being filed together with a new application.

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

## 5. Name and address to whom correspondence concerning document should be mailed:

Name: Robert J. Jacobson

Internal Address: \_\_\_\_\_

Street Address: 650 Brimhall Street SouthCity: Saint PaulState: Minnesota Zip: 55116-1511Phone Number: 651-699-7900Fax Number: 651-699-7901

Email Address: \_\_\_\_\_

6. Total number of applications and patents involved: one7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

- ☒ Authorized to be charged to deposit account  
☐ Enclosed  
☐ None required (government interest not affecting title)

## 8. Payment Information

Deposit Account Number 50-3288Authorized User Name Robert J. Jacobson

## 9. Signature:

Signature

Robert J. Jacobson

Name of Person Signing

May 28, 2009  
 Date  
 Total number of pages including cover sheet, attachments, and documents: three

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:  
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PATENT  
 REEL: 022782 FRAME: 0509

12/312883

*PATENT*

For: U.S. Rights and Foreign Rights  
For: U.S. Application or U.S. Patent  
By: Inventor or Owner

**ASSIGNMENT OF INVENTION**

In consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

**ASSIGNORS:**

Yoshitaka ARITA  
Nishinomiya-shi, HYOGO, JAPAN (residence)  
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hereby sell(s), assign(s) and transfer(s) to

**ASSIGNEE:**

NIPPON SHOKUBAI CO., LTD.  
1-1, Koraibashi 4-chome, Chuo-ku,  
Osaka-shi, Osaka 541-0043 JAPAN  
Nationality: JAPAN

and the successors, assigns and legal representatives of the ASSIGNEE the entire right, title, and interest in and to the inventions, patent applications and patents identified below for the United States and its territorial possessions and for all foreign countries, with said entire right, title, and interest including any and all improvements, with said entire right, title, and interest including any legal equivalent thereof in any foreign country, with said entire right, title, and interest including the right to claim priority, and with said right, title, and interest including all additional patent applications and patents including any continuation, division, renewal, or substitute thereof and as to patents any reissue or re-examination thereof:

Title:

PROCESS FOR PRODUCING ACROLEIN AND  
GLYCERIN-CONTAINING COMPOSITION

Attorney Docket Number: F07-063US

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention, patent application, patent, and legal equivalents thereof as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said invention, patent application, patent, and legal equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, I have hereunto set hand and seal:

Date: May 26, 2009

Yoshitaka Arita  
Yoshitaka ARITA

Date: May 26, 2009

Hideaki Tsuneki  
Hideaki TSUNEKI

Date: May 26, 2009

Hiroto Kasuga  
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Masaki Okada  
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Masaru Kirishiki  
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