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Attorney's Docket No. 026350-061

To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Shun-ichi MURAHASHI; Naruyoshi KOMIYA; and  
Yukiko HAYASHI

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name

Other: \_\_\_\_\_

Execution Date: December 18, 2001

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

Name: Osaka University

Address: 1-1, Yamadaoka, Suita City

Osaka, Japan

Additional name(s) & address(es) attached? ☐ Yes ☒ No

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

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

A. Patent Application No.(s)

09/906,752

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Robert G. Mukai

Address: BURNS, DOANE, SWECKER & MATHIS, L.L.P.

P.O. Box 1404

Alexandria, Virginia 22313-1404

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR § 3.41): \$ 40.00

☒ Enclosed

☒ Authorized to be charged to deposit account, if necessary

8. Deposit account number:

02-4800

DO NOT USE THIS SPACE

9. Statement and signature.

*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.*

Robert G. Mukai, Registration No. 28,531  
Name of Person Signing

Robert G. Mukai  
Signature

December 27, 2001  
Date

Total number of pages including cover sheet, attachments, and document: 3

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents and Trademarks  
Box Assignments  
Washington, D.C. 20231

01/02/2002 DBYRNE 00000068 09906752

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40.00 OP

## ASSIGNMENT

WHEREAS, I/WE (1) Shun-ichi MURAHASHI  
a Japanese citizen, residing at 1-3-29, Asahigaoka, Ikeda City,  
Osaka, Japan

(2) Naruyoshi KOMIYA  
a Japanese citizen, residing at 9-21-309, Hama-cho, Ashiya City,  
Hyogo Pref., Japan

(3) Yukiko HAYASHI  
a Japanese citizen, residing at 3-5-9-306, Toneyama, Toyonaka City,  
Osaka, Japan

(4) \_\_\_\_\_  
a \_\_\_\_\_ citizen, residing at \_\_\_\_\_

(5) \_\_\_\_\_  
a \_\_\_\_\_ citizen, residing at \_\_\_\_\_

(6) \_\_\_\_\_  
a \_\_\_\_\_ citizen, residing at \_\_\_\_\_

(7) \_\_\_\_\_  
a \_\_\_\_\_ citizen, residing at \_\_\_\_\_

(8) \_\_\_\_\_  
a \_\_\_\_\_ citizen, residing at \_\_\_\_\_

hereinafter referred to as Assignor (collectively if more than one inventor is listed above), have invented certain new and useful improvements in METHOD FOR OXIDIZING ALKANES AND CYCLOALKANES WITH, the specification of which: ALDEHYDES IN THE PRESENCE OF COPPER-BASED CATALYSTS AND

NITROGEN-CONTAINING COMPOUNDS

(a) ☐ was executed on even date herewith;

(b) ☒ was filed on July 18, 2001 as ☒ Application No. 09 906,752 or ☐ Express Mail No., as Application No. not yet known \_\_\_\_\_ and was amended on \_\_\_\_\_ (if applicable); or

(c) ☐ was described and claimed in PCT International Application No. \_\_\_\_\_ filed on \_\_\_\_\_ and as amended under PCT Article 19 on \_\_\_\_\_ (if any) and/or under PCT Article 34 on \_\_\_\_\_ (if any).


AND WHEREAS, OSAKA UNIVERSITY  
with its principal place of business at 1-1, Yamadaoka, Suita City, Osaka, Japan  
(hereinafter referred to as Assignee) desires to acquire the entire right, title, and interest in and to the said improvements with respect to the United States of America, its territories and possessions.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Assignor hereby acknowledges that it has sold, assigned, transferred and set over, and by these presents does hereby sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title, and interest in the United States of America, and its territories and possessions in, to and under said improvements, and any Patent Applications in the United States of America and all divisions, renewals and extensions thereof, and all rights of priority of the United States of America which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions; and Assignor hereby authorizes and requests the Commissioner of Patents of the United States of America to issue all Patents for said improvements to Assignee, its successors, legal representatives and assigns, in accordance with the terms of this instrument.


AND ASSIGNOR HEREBY covenants and agrees that it will communicate to Assignee, its successors, legal representatives and assigns, any facts known to it respecting said improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in the United States of America.

IN TESTIMONY WHEREOF, Assignor intending to be legally bound has hereunto affixed its signature.

This 18th day of December, 2001

  
Signature of Shun-ichi MURAHASHI

This 18th day of December, 2001

  
Signature of Naruyoshi KOMIYA

This 18th day of December, 2001

  
Signature of Yukiko HAYASHI

This \_\_\_\_ day of \_\_\_\_\_, \_\_\_\_

  
Signature of \_\_\_\_\_

This \_\_\_\_ day of \_\_\_\_\_, \_\_\_\_

\_\_\_\_\_  
Signature of \_\_\_\_\_

This \_\_\_\_ day of \_\_\_\_\_, \_\_\_\_

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Signature of \_\_\_\_\_

This \_\_\_\_ day of \_\_\_\_\_, \_\_\_\_

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Signature of \_\_\_\_\_

This \_\_\_\_ day of \_\_\_\_\_, \_\_\_\_

\_\_\_\_\_  
Signature of \_\_\_\_\_