

Form PTO-1595 (Rev. 03-05)
OMB No. 0651-0027 (exp. 6/30/2005)

U.S. DEPARTMENT OF COMMERCE
United States Patent and Trademark Office

RECORDATION FORM COVER SHEET PATENTS ONLY

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies):

Tatsushi MURAKAMI (03/29/2007), Akihiro NAKANISHI (04/09/2007), Dieter LUBDA (04/20/2007), and Michael SCHULTZ (04/20/2007)

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

2. Name and address of receiving party(ies)

Name: Daicel Chemical Industries, Ltd.

Internal Address: _____

Street Address: _____

1, Teppo-cho, Sakai-ku
Sakai-shi Osaka
590-8501
JAPAN

City: _____

State: _____

Country: _____ Zip: _____

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

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

Execution Date(s): in parentheses after inventor name

☐ Assignment ☐ Merger ☐ Change of Name

☐ Security Agreement ☐ Joint Research Agreement

☐ Government Interest Assignment

☐ Executive Order 8424, Confirmatory License

☒ Other Corrected Assignment

4. Application or patent number(s):

A. Patent Application No.(s)
11/806,033

☐ 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: Gerald M. Murphy, Jr.
BIRCH, STEWART, KOLASCH & BIRCH,
LLP

Internal Address: Atty. Dkt.: 1261-0170PUS1

Street Address: 8110 Gatehouse Road
Suite 100 East
P.O. Box 747

City: Falls Church

State: VA Zip: 22040-0747

Phone Number: (703) 205-8000

Fax Number: (703) 205-8050

Email Address: mailroom@bskb.com

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

☐ Authorized to be charged by credit card

☒ Authorized to be charged to deposit account

☐ Enclosed

☐ None required (government interest not affecting title)

8. Payment Information

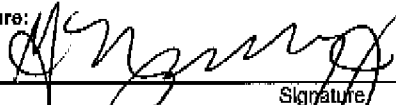
a. Credit Card Last 4 Numbers _____

Expiration Date _____

b. Deposit Account Number 02-2448

Authorized User Name Gerald M. Murphy, Jr.

9. Signature:



Signature

Gerald M. Murphy, Jr. - 28,977

Name of Person Signing

AUG 24 2007

Date

Total number of pages including cover sheet, attachments, and documents:

4

RECORDATION FORM COVER SHEET (continued)	
Form PTO-1595	
Additional Conveying Party(ies)/Execution Date(s) (1. Continued):	
Additional Assignees (2. Continued):	
Assignee Name: <u>MERCK PATENT GMBH</u>	
Internal Address:	
Street Address: <u>Frankfurter Strasse 250</u>	
City: <u>Darmstadt</u> State: _____ Country: <u>Germany</u> Zip: <u>64293</u>	
Assignee Name: _____	
Internal Address:	
Street Address:	
City: _____ State: _____ Country: _____ Zip: _____	
Assignee Name: _____	
Internal Address:	
Street Address:	
City: _____ State: _____ Country: _____ Zip: _____	
Additional Applications and/or Patents (4. Continued):	
Additional Patent Application Numbers 4A. Continued:	Additional Patent Numbers 4B. Continued:
Additional numbers attached? <input type="checkbox"/> Yes <input type="checkbox"/> No	

U.S. PTO
11/806033
05/29/2007

Form PTO-1
OMB No. 065

06-05-2007

U.S. DEPARTMENT OF COMMERCE
United States Patent and Trademark Office



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RM COVER SHEET
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5-29-07

To the DI:

Use record the attached documents or the new address(es) below.

1. Name of conveying party(ies):

Tatsushi MURAKAMI (03/29/2007), Akihiro
NAKANISHI (04/09/2007), Dieter LUBDA
(04/20/2007), and Mikael SCHULTE (04/20/2007)

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

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

Execution Date(s): In parentheses after inventor name

☒ Assignment ☐ Merger ☐ Change of Name

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☐ Other

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☐ Enclosed
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Authorized User Name Gerald M. Murphy, Jr.

9. Signature

Signature

May 29, 2007

Date

Gerald M. Murphy, Jr. - 28,977

Name of Person Signing

Total number of pages including cover
sheet, attachments, and documents:

4

06/04/2007 MJAMA1 00000100 022448 11806033

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**RECORDATION FORM COVER SHEET
(continued)**

Form PTO-1595

Additional Conveying Party(ies)/Execution Date(s) (1. Continued):**Additional Assignees (2. Continued):**Assignee Name: MERCK PATENT GMBH

Internal Address:

Street Address: Frankfurter Strasse 250,City: Darmstadt State: _____ Country: Germany Zip: 64293

Assignee Name: _____

Internal Address:

Street Address:

City: _____ State: _____ Country: _____ Zip: _____

Assignee Name: _____

Internal Address:

Street Address:

City: _____ State: _____ Country: _____ Zip: _____

Additional Applications and/or Patents (4. Continued):Additional Patent Application Numbers
4A. Continued:Additional Patent Numbers
4B. Continued:

Additional numbers attached?

☐ Yes☐ No

ATTORNEY DOCKET NO. 1261-0170PUS1**BIRCH, STEWART, KOLASCH & BIRCH, LLP**UNITED STATES PATENT RIGHTS, OR
UNITED STATES PLUS ALL FOREIGN PATENT RIGHTS**ASSIGNMENT**Application No. NEWFiled 05/29/07Insert Name(s) of Inventor(s) ***** (Given Name FAMILY NAME (ALL CAPS)) *****WHEREAS, Tatsushi MURAKAMI, Akihiro NAKANISHI, Dieter LUBDA
and Michael SCHULTE

Insert Title of Invention

(hereinafter designated as the undersigned) has (have) invented certain new and useful improvements in
SEPARATING AGENT FOR OPTICAL ISOMERS AND SEPARATION COLUMN FOR
OPTICAL ISOMERSfor which an application for Letters Patent of the United States of America has been executed by the undersigned
(except in the case of a provisional application).

Insert Date of Signing of Application

on March 29, 2007; April 9, 2007 and April 20, 2007 and
April 20, 2007; respectively

Insert Name of Assignee

WHEREAS, DAICEL CHEMICAL INDUSTRIES LTD. and
MERCK PATENT GMBH

Insert Address of Assignee

of 1, Teppo-cho, Sakai-ku, Sakai-shi, Osaka 590-0905 JAPAN; and
Frankfurter Strasse 250, Darmstadt 64293 GERMANY, respectivelyits heirs, successors, legal representatives and assigns (hereinafter designated as the Assignee) is desirous of acquiring
the entire right, title and interest in and to said invention and in and to any Letters Patent(s) that may be granted
therefor in the United States of America and
☐ in any foreign countries.**CHECK BOX
IF APPROPRIATE**NOW, THEREFORE, in consideration of the sum of Ten Dollars (\$10.00) to the undersigned in hand paid, the receipt
of which is hereby acknowledged, and other good and valuable consideration, the undersigned has (have) sold,
assigned and transferred, and by these presents does sell, assign and transfer unto said Assignee the full and exclusive
right to the said invention in the United States of America, its territories, dependencies and possessions and the entire
right, title and interest in and to any and all Letters Patent(s) which may be granted therefor in the United States of
America, its territories, dependencies and possessions, and if the box above is designated, in any and all foreign
countries;and to any and all divisions, reissues, continuations, conversions and extensions thereof for the full term or terms for
which the same may be granted.

ATTORNEY DOCKET NO. 1261-0170PUS1

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional, conversion or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division, conversion or reissue thereof or Letter Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

The undersigned agree(s) to execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States of America patent(s) or a grant of a valid United States of America and any foreign patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorize(s) and request(s) the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patents resulting from said application or any continuing, divisional conversion or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) the full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the law firm of Birch, Stewart, Kolasch & Birch, LLP the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

The undersigned hereby covenant(s) that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date	<u>Mar 29, 2007</u>	Name of Inventor	<u>Tatsushi Murakami</u> Tatsushi MURAKAMI (signature)
Date	<u>Apr 9, 2007</u>	Name of Inventor	<u>Akihiro Nakamishi</u> Akihiro NAKANISHI (signature)
Date	<u>Apr. 20, 2007</u>	Name of Inventor	<u>Dieter Lubda</u> Dieter LUBDA (signature)
Date	<u>Apr. 20, 2007</u>	Name of Inventor	<u>Michael Schulte</u> Michael SCHULTE (signature)
Date	_____	Name of Inventor	_____ (signature)
Date	_____	Name of Inventor	_____ (signature)