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Atty. Docket No.: 0216-0502P

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Mark Office:
copy thereof.

1. Name of conveying party(ies):

[FAMILY NAME (ALL CAPS), Given Name]

SULTANA', Asima

NAGAHARA, Hajime

FUJII, Yuichi

SUZUKI, Ken

3-2-04

Additional name(s) of conveying party(ies) attached?

☐ YES ☒ NO

3. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ Other:Execution Date: January 14, 2004, January 11, 2004,
January 13, 2004 and January 13, 2004, respectively

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:

January 13, 2004, January 11, 2004, January 13, 2004 and January 13, 2004, respectively

A. Patent Application No(s).

New

B. Patent No.(s).

Additional numbers attached? ☐ YES ☒ NO

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

Name: BIRCH, STEWART, KOLASCH & BIRCH, LLP

Street Address: P.O. BOX 747

City: FALLS CHURCH State: VA ZIP: 22040-0747

Country: USA

6. Total No. of applications/patents involved: One (1)

7. Total fee (37 C.F.R. § 3.41): \$40.00

☒ Enclosed☒ Authorized to be charged to deposit account,
if no fee attached.

8. Deposit account number: 02-2448

(Attach triplicate copy of this page
if paying by deposit account)

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9. Statement and signature.

Raymond C. Stewart, #21,066

Name of Person Signing/Reg. No.

Signature

March 2, 2004

Date

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

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(Rev. 02/12/2004)

PATENT
REEL: 015533 FRAME: 0021

BIRCH, STEWART, KOLASCH & BIRCH, LLP

UNITED STATES PATENT RIGHTS, OR
UNITED STATES PLUS ALL FOREIGN PATENT RIGHTS

ATTORNEY DOCKET NO.
0216-0502P

ASSIGNMENT

Application No. New

Filed 3-2-04

Insert Name(s)
of Inventor(s)

WHEREAS, Asima SULTANA, Hajime NAGAHARA, Yuichi FUJII and
Ken SUZUKI

Insert Title
of Invention

(hereinafter designated as the undersigned) has (have) invented certain new and useful improvements in

Method for producing a lactam

for 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 Jan. 13, 2004, Jan. 11, 2004, Jan. 13, 2004 and Jan. 13, 2004, ; and
respectively

Insert Name
of Assignee

WHEREAS, Asahi Kasei Chemicals Corporation

Insert Address
of Assignee

of 1-2, Yuraku-cho 1-chome, Chiyoda-ku, Tokyo 100-8440 JAPAN

CHECK BOX
IF APPROPRIATE

☐ its 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 and all foreign countries.

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.

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>Jan 14/2004</u> ,	Name of Inventor <u>Asime Sultane</u> (signature) Asima SULTANA
Date <u>Jan 11/2004</u> ,	Name of Inventor <u>Hajime Nagahara</u> (signature) Hajime NAGAHARA
Date <u>Jan 13/2004</u> ,	Name of Inventor <u>Yuichi Fujii</u> (signature) Yuichi FUJII
Date <u>Jan 13/2004</u> ,	Name of Inventor <u>Ken Suzuki</u> (signature) Ken SUZUKI
Date _____ ,	Name of Inventor _____ (signature)
Date _____ ,	Name of Inventor _____ (signature)