

02-16-1999

SHEET

09/101470

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100965248

Rec'd PTO 10 JUL 1998
document(s) or copy(ies) thereof.

To the Assistant Commissioner for Pat

1. Name of conveying party(ies):

Yukio ISHIBASHI
Shinichi IMAMURA
Tetsuo MIWA

7.10.98

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

3. Nature of conveyance:

☒ Assignment
Security Agreement
OtherMerger
Change of NameExecution Date: June 29, 1998

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

Name: TAKEDA CHEMICAL INDUSTRIES, LTD.

Internal Address:

Street Address: 1-1, Doshomachi 4-chome, Chuo-ku, Osaka 541, Japan

City: , State: ZIP:

Additional name(s) & address(es) attached? No

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

(X) This document is being filed together with a new application, and the execution date of the application is: June 29, 1998

A. Patent Application No.

09101470

B. Patent No.

Additional numbers attached? No

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

Name: WENDEROTH, LIND & PONACK, L.L.P.

Internal Address: _____

Street Address: 2033 K Street, N.W., Suite 800City: Washington, State: DC ZIP: 200066. Total number of applications and patents involved: 17. Total fee (37 C.F.R. § 3.41). \$40.00Enclosed Check No. 29167

Authorized to be charged to deposit account

8. Deposit account number:

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

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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.

Warren M. Cheek, Jr., Reg. No. 33,367

Name of Person Signing

Signature

July 10, 1998

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

THE COMMISSIONER IS AUTHORIZED
TO CHARGE ANY DEFICIENCY IN THE
FEE FOR THIS PAPER TO DEPOSIT
ACCOUNT NO. 23-0975PATENT
REEL: 9753 FRAME: 0542

ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned

**Insert Name(s)
of Inventor(s)**

Yukio ISHIBASHI

Shinichi IMAMURA and

Tetsuo MIWA

the undersigned hereby sell(s) and assign(s) to

**Insert Name(s)
of Assignee(s)**

Takeda Chemical Industries, Ltd.

Address

of 1-1, Doshomachi 4-chome, Chuo-ku, OSAKA 541 JAPAN

(hereinafter designated as the Assignee) the entire right, title and interest for the United States as defined in 35 USC 100, in the invention known as

**Title of
Invention**

Carbapenem Compounds, Their Production and Use

**Date of Signing
of Application**

for which an application for patent in the United States has been executed by the undersigned on

June 29, 1998

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional 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 or reissue thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

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

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application or any division or divisions or continuing or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) 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.

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**PATENT
REEL: 9753 FRAME: 0543**

The undersigned hereby grant(s) the firm of WENDEROTH, LIND & PONACK, L.L.P., 2033 K Street, N.W., Suite 800, Washington, DC 20006, 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 United States Patent Office for recordation of this document.

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

Date June 29, 1998, Name of Inventor Yukio Ishibashi (Yukio ISHIBASHI)

Date June 29, 1998, Name of Inventor Shinichi Imamura (Shinichi IMAMURA)

Date June 29, 1998, Name of Inventor Tetsuo Miwa (Tetsuo MIWA)

Date _____, Name of Inventor _____

Date _____, Name of Inventor _____

Date _____, Name of Inventor _____

(This assignment should preferably be acknowledged before a United States Consul. If not, then the execution by the Inventor(s) should be witnessed by at least two witnesses who sign here.)

Witness Hideaki Morita

Witness Shohei Hashiguchi

ACKNOWLEDGEMENT

_____ } ss

This _____ day of _____, 19_____, before me
personally came the above-named _____

_____ to me personally known as the individual(s) who executed the foregoing assignment, who did acknowledge to me that he (they) executed the same of his (their) own free will for the purposes therein set forth.

SEAL

Official Signature

Official Title

The above application may be more particularly identified as follows:

U.S. Application Serial No. _____ Filing Date _____

Applicant Reference Number _____ Atty Docket No. _____

Title of Invention _____