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Docket No.: 56801/46342

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JC13 Rec'd PCT/PTO 28 DEC 2001

To the Honorable Commissioner of Patent

102039494

attached original documents or copy thereof.

1. Name of conveying party(ies):

Hiroshi Tanaka

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

Name: Takeda Chemical Industries, Ltd.

Address: 1-1, Doshomachi 4-chome,

Chuo-ku, Osaka-shi

City: Osaka 541-0045

State/Prov.: \_\_\_\_\_

Country: JAPAN

ZIP: \_\_\_\_\_

Additional name(s) &amp; address(es)

☐ Yes☐ No

3. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ Other \_\_\_\_\_

Execution Date: October 15, 2001

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

If this document is being filed together with a new application, the execution date of the application is: ---December 2001

Patent Application No.

Filing date

B. Patent No.(s)

Additional numbers

☐ Yes ☒ No

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

Name: David G. Conlin

Registration No. 27,026

Address: EDWARDS &amp; ANGELL, LLP

Dike Bronstein Roberts &amp; Cushman

Intellectual Property Practice Group, PO Box 9619

City: Boston

State/Prov.: MA

Country: USA

ZIP: 02209

6. Total number of applications and patents involved:

1

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

☒ Enclosed - Any excess or insufficiency should be credited or debited to deposit account☐ Authorized to be charged to deposit account

8. Deposit account number:

04-1105

(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.

David G. Conlin (Reg. No: 27,026)

Dianne Reed, Reg. No 45,281 for

December 28, 2001

Name of Person Signing

Signature

David G. Conlin

3

Date

Total number of pages including cover sheet, attachments, and

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

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

PATENT

REEL: 012726 FRAME: 0863

## ASSIGNMENT

Serial No. \_\_\_\_\_, Filed \_\_\_\_\_

WHEREAS, the following inventor(s): Hiroshi Tanaka

\_\_\_\_\_  
\_\_\_\_\_  
(hereinafter designated as the undersigned) has (have) invented certain new and  
useful improvements in  
Novel Protein And DNA Thereof

\_\_\_\_\_  
\_\_\_\_\_  
for which application for Letters Patent of the United States has been filed on \_\_\_\_\_  
and received serial number; and \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
WHEREAS, Takeda Chemical Industries, Ltd. of 1-1, Doshomachi  
4-chome, Chuo-ku, Osaka-shi, Osaka 541-0045 Japan

\_\_\_\_\_  
(Assignee(s) and their address(es))

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 to any Letters Patent(s) that may be granted therefor in the United  
States of America;

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) 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 do sell, assign and transfer unto the Assignee the  
full and exclusive right to the said invention in the United States of America and 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 and its territories, dependencies and possessions, and in and to any  
and all divisions, reissues, continuations and extensions thereof for the full term or  
terms for which the same may be granted.

The undersigned also have sold, assigned, and transferred, and do hereby sell,  
assign and transfer to the Assignee, their entire right, title and interest in and to the  
invention disclosed in said application, in all countries of the world foreign to the  
United States, including the right to file applications and obtain patents for said  
invention in its own name in said countries and including all rights of priority in said  
countries under the terms of any applicable international convention; to have and to  
hold for the sole and exclusive use and benefit of the Assignee, to the full end of the  
term or terms for which any and all of said Letters Patent for said invention may  
issue, to the same extent as the undersigned would hold and enjoy if this Assignment  
had not been made.

The undersigned agree(s) to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights, and also agree, at the request of the Assignee, to testify in any legal proceedings including interferences, sign all lawful papers, make all lawful oaths, and generally do everything possible to aid the Assignee, its successors and assigns, to obtain, maintain and enforce patent protection for the invention in all countries.

The undersigned also 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 hereby authorize(s) and request(s) the Commissioner of Patents and Trademarks to issue any and all Letters Patents of the United States of America resulting from said application or any division or divisions or continuing or reissue applications thereof to the Assignee, as Assignee of the entire interest, and hereby covenants that he or she has the full right to convey the entire interest herein assigned, and that he or she has not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the law firm of Dike, Bronstein, Roberts & Cushman, LLP of 130 Water Street, Boston, Massachusetts 02109-4280, U.S.A. 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.

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

Date <u>October 15, 2001</u> ,	Signature of Inventor <u>Hiroshi Tanaka</u>	Name: Hiroshi Tanaka
Date _____,	Signature of Inventor _____	Name: _____
Date _____,	Signature of Inventor _____	Name: _____
Date _____,	Signature of Inventor _____	Name: _____
Date _____,	Signature of Inventor _____	Name: _____
Date _____,	Signature of Inventor _____	Name: _____

Date \_\_\_\_\_, Signature of Inventor \_\_\_\_\_  
Name: \_\_\_\_\_

Date \_\_\_\_\_, Signature of Inventor \_\_\_\_\_  
Name: \_\_\_\_\_

Date \_\_\_\_\_, Signature of Inventor \_\_\_\_\_  
Name: \_\_\_\_\_

(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 Koji Yoshimura (Koji YOSHIMURA)

Witness Takafumi Ishii (Takafumi ISHII)