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FORM PTO-1595 (modified)

HEET

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

To the Honorable Assistant Secretary and Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy(ies) thereof.

1. Name of conveying party(ies):

Takeda Pharmaceutical Company Limited

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

3. Nature of conveyance:

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

Execution Date: June 15, 2006

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

Name: Ensuiko Sugar Refining Co., Ltd.

Address: 2-9-6, Nihonbashi Horidome-cho
Chuo-ku, Tokyo-to, JapanAdditional name(s) & address(es) attached? 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)
, filedB. Patent No.(s)
5,434,061, issued July 18, 1995
5,635,610, issued June 3, 1997
5,840,881, issued November 24, 1998Additional numbers attached? No

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

Name: WENDEROTH, LIND & PONACK, L.L.P.Attn: Warren M. Cheek, Jr., Esq.Street Address: 2033 K Street, N.W., Suite 800City: Washington, State: DC ZIP: 20006-10216. Total number of applications and patents involved: 37. Total fee (37 CFR 3.41). \$ 120.00

☒ Enclosed (Check No. 75509)
Authorized to be charged to deposit account

8. Deposit account number: 23-0975

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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

August 4, 2006
DateTotal number of pages including cover sheet: 3

OMB No. 0651-0011 (exp. 4/94)

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THE COMMISSIONER IS AUTHORIZED
TO CHARGE ANY DEFICIENCY IN THE
FEES FOR THIS PAPER TO DEPOSIT
ACCOUNT NO. 23-0975

DOCKET NO. 0193_1766A

PATENT

REEL: 018132 FRAME: 0189

ASSIGNMENT

WHEREAS, **Takeda Pharmaceutical Company Limited**, a corporation of Japan, having a place of business at 1-1, Doshomachi 4-chome, Chuo-ku, Osaka-shi, Osaka-fu, Japan (hereinafter referred to as "the Assignor") is the sole owner by Assignments from the respective inventors of the following United States Letters Patents (hereinafter referred to as "the Letters Patents"):

<u>Appln. No.</u>	<u>Filing Date</u>	<u>Patent No.</u>	<u>Issue Date</u>	<u>Title of Invention</u>	<u>Assignment</u>
08/152,122	11/15/1993	5,434,061	07/18/1995	Production of saccharide carboxylic acids	Recorded on 11/15/1993 under R/F 006778/0521
08/419,394	04/10/1995	5,635,610	06/03/1997	(same as above)	(same as above)
08/437,227	05/08/1995	5,840,881	11/24/1998	Composition containing a water-insoluble or slightly water- insoluble compound with enhanced water-solubility	Recorded on 07/07/1995 under R/F 007551/0974

WHEREAS, **Ensuiko Sugar Refining Co., Ltd.**, a corporation of Japan, having a place of business at 2-9-6, Nihonbashi Horidome-cho, Chuo-ku, Tokyo-to, Japan (hereinafter referred to as "the Assignee") is desirous of acquiring all rights, title and interest in and to the aforesaid Letters Patents as possessed by the Assignor;

NOW, THEREFORE, in consideration of One Dollar (\$1.00) to the Assignor in hand paid, the receipt of which is hereby acknowledged, and other good and valuable consideration, the Assignor has sold, assigned and transferred, and by these presents does hereby sell, assign and transfer unto said Assignee, their entire right, title and interest in and to the Letters Patents within the United States of America and its territories, dependencies and possessions, together with the right to extend the protection of the said Letters Patents to the various territorial possessions now owned or which may be hereafter acquired by the United States of America, all said rights to be held and enjoyed by the Assignee for its own use and behalf, and for the use and behalf of its successors or assigns, to the full end of the term for which said United States Letters Patents has been granted, as fully and entirely as the same would have been held and enjoyed by said Assignor if this assignment sale had not been made.

AND said Assignor further covenants and agrees that the Assignor will communicate to the said Assignee, their successors, legal representatives and assigns, any facts known to it respecting said Letters Patents and use all reasonable means to cause its employees to testify in

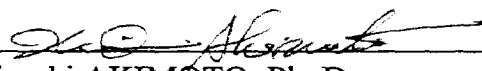
any legal proceedings, sign all lawful papers, execute all reissue and reexamination applications, make all rightful oaths, and generally do everything possible to aid said Assignee, their successors, legal representatives and assigns, to perfect its share of the title and to obtain and enforce patent protection for said invention aforesaid.

The undersigned hereby grant the law firm of Wenderoth, Lind & Ponack, 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.

IN WITNESS WHEREOF, executed by the undersigned on the date opposite the undersigned name.

Takeda Pharmaceutical Company Limited

Date: June 15, 2006


Hiroshi AKIMOTO, Ph. D.
Managing Director, Member of The Board.

WITNESS:

Naoko Chitani
Takako Yaguchi