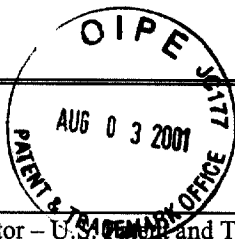


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To the Director - U.S. Patent and Trademark Office original documents or copy thereof.

1. Name of conveying party(ies):

Takeda Chemical Industries, Ltd.

8-30

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

☐ yes

☒ no

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

Takeda Schering-Plough Animal Health, K.K.

3-7, Hiranomachi 2-chome

Chuo-ku, Osaka, Japan

3. Nature of Conveyance:

☒ Assignment

☐ Merger

☐ Security Agreement

☐ Change of Names

☐ Other

Additional name(s) & address(es) attached?

☐ yes

☒ no

Execution Date: March 12, 2001

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)/Confirmation No.(s)

/

B. Patent No.(s)

4,794,105 5,223,246

4,914,206 5,985,875

5,210,224 5,994,355

Additional numbers attached?

☐ Yes

☒ No

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

SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC

2100 Pennsylvania Avenue, N.W.

Suite 800

Washington, D.C. 20037-3213

6. Total number of applications and registration involved:

6

7. Total Fee (37 CFR 3.41): \$240.00

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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 J. Cushing

Reg. No. 28,703

August 3, 2001

Date

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PATENT
REEL: 012036 FRAME: 0941

Assignment

Takeda Chemical Industries, Ltd., of 1-1, Doshomachi 4-chome, Chuo-ku, Osaka 541-0045 Japan, hereinafter referred to as "Assignor", is the owner of an entire right, title and interest in United States Patents Nos.

4,794,105 5,223,246

4,914,206 5,985,875

5,210,224 5,994,355

and

Whereas, **TAKEDA SCHERING-PLOUGH ANIMAL HEALTH K.K.** of 3-7, Hiranomachi 2-chome, Chuo-ku, Osaka, Japan hereinafter referred to as "Assignee", desire to acquire the entire right, title, and interest of the Assignor in the said U.S. Patents;

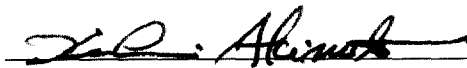
Now, therefore, for valuable consideration, receipt of which is hereby acknowledged, the above-named Assignor hereby sells, assigns and transfers to the above-named Assignee, its successors and assigns, the entire right, title and interest in the said U.S. Patents, and any reissues or re-examinations thereof, together with all claims for damages by reason of past infringement of the said U.S. Patents with the right to Assignee to sue for and collect the same for their own use and enjoyment.

Assignor hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this Assignment.

Assignor further covenants that upon request by the Assignee, Assignor will promptly provide to Assignee all pertinent facts and documents relating to the invention claimed in the said U.S. Patents and legal equivalents as may be known and accessible to Assignor, and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to Assignee or its legal representative any and all papers instruments or affidavits required to apply for, obtain, maintain, issue and enforce the said U.S. Patents which may be necessary by Assignee.

Takeda Chemical Industries, Ltd.

Date: March 12th 2001



Hiroshi Akimoto, *Ph.D.*

Member of the Board, General Manager,
Intellectual Property Department