09-21-1998 **3 SHEET** FORM PTO-1595 (modified) U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office أرنان أأأأ أأأ أأأ أأأ document(s) or copy(ies) thereof. To the Assistant Commissioner for P. 100833834 2. Name and address of receiving party(ies): 1. Name of conveying party(ies): Masahiko KATO, Jiichi ARAI, Makoto KAKIUTI Name: Takeda Chemical Industries, Ltd. Street Address: 1-1, Doshomachi 4-chome, Chuo-ku, Osaka, Japan Additional name(s) of conveying party(ies) attached? No 3. Nature of conveyance: Assignment Change of Name Security Agreement Other Execution Date: August 27, 1998 Additional name(s) & address(es) attached? No 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: August 27, 1998 B. Patent No.(s) A. Patent Application No.(s) Additional numbers attached? No 5. Name and address of party to whom correspondence 6. Total number of applications and patents involved: 1 concerning document should be mailed: Name: WENDEROTH, LIND & PONACK, L.L.P. 7. Total fee (37 C.F.R. § 3.41). . . . . . . \$ 40.00 X Enclosed [Check No 258]/4 Internal Address: Attn: Mr. Nils E. Pedersen Authorized to be charged to deposit account Street Address: 2033 K Street, N.W., Suite 800 8. Deposit account number: 23-0975 City: Washington, D.C. ZIP: 20006 (Attach duplicate copy of this page if paying by deposit account) DO NOT USE THIS SPACE 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. Nils E. Pedersen, Reg. No. 33,145 September 10, 1998 Name of Person Signing Total number of pages including cover sheet, attachments, and document: 3 THE COMMISSIONER IS AND TORIZED TO CHARGE ANY DESCRIPTION THE Mail documents to be recorded with required cover heet information to: Commissioner of Patents and Zademarks TO CHARGE AND EMPICIENCY IN THE NOR THIS PARKS OF THE Box Assignments S FEE FOR THIS PAPER TO DEPOSIT Washington, D.C. 20231 ACCOUNT NO. 23-0975.

> PATENT REEL: 9456 FRAME: 0663

## ASSIGNMENT

|                               | In consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned                            |
|-------------------------------|---|
|                               | Masahiko KATO, Jiichi ARAI and Makoto KAKIUTI   |
| Insert Name(s) of Inventor(s) |   |
|                               |   |
|                               |   |
|                               |   |
| ,                             | 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, 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 |
| Fitle of<br>Invention         | PREFILLED SYRINGE   |
|                               |   |
| Date of Signing               | for which an application for patent in the United States has been executed by the undersigned on  |
| of Application                | August 27, 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: 9456 FRAME: 0664 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).

August 27, 1998, Name of Inventor Masahiko Kato Masahiko KATO Date August 27, 1998, Name of Inventor Jiichi Ani August 27, 1998, Name of Inventor Haboto Kahinti \_\_\_\_\_, 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 Muneo Nonomura Witness Noriyuki Takamura ACKNOWLEDGEMENT This \_\_\_\_\_\_, 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. Official Signature SEAL Official Title The above application may be more particularly identified as follows: \_\_\_Filing Date \_\_\_\_ U.S. Application Serial No. \_\_\_ 528306 TKM Applicant Reference Number \_ \_\_\_ Atty Docket No.\_\_\_\_ Title of Invention PREFILLED SYRINGE

**RECORDED: 09/10/1998** 

PATENT REEL: 9456 FRAME: 0665