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PATENTS ONLY

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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):
Yohko AKIYAMA, Naoki NAGAHARA, Megumi KITANO,
and Masafumi NAKAO
Additional name(s) of conveying party(ies) attached? No

3. Nature of conveyance:
XX Assignment Merger
 Security Agreement Change of Name
 Other _____

Execution Date: Aug. 26, 1999 and Aug. 27, 1999

2. Name and address of receiving party(ies):
Name: TAKEDA CHEMICAL INDUSTRIES, LTD.
Internal Address:
Street Address: 1-1, Doshomachi 4-chome, Chuo-ku
City: Osaka, Country: Japan Zip: 540-8645
Additional name(s) & address(es) attached? No.

4. Application number(s) or patent number(s):
Title: Gastrointestinal Mucosa-Adherent Pharmaceutical Composition
If this document is being filed together with a new application, the execution date of the application is : Aug. 26, 1999
and Aug. 27, 1999

A. Patent Application No.(s)
09/380939

B. Patent No.(s)
Additional numbers attached? No

5. Name and address of party to whom correspondence concerning document should be mailed:
Name: Philippe Y. Riesen
Takeda Chemical Industries, Ltd.
Intellectual Property Department
Street Address: 17-85, Jusohonmachi 2-chome,
Yodogawa-ku
City: Osaka Country Japan Zip: 532-8686

6. Total number of applications and patents involved: 1

7. Total fee (37 C.F.R. §3.41) \$40.00
 Enclosed
XX Authorized to be charged to deposit account

8. Deposit account number: 500799
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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.

Philippe Y. Riesen (No. 35,657)
Name of the Person signing

September 6, 1999
Date

Total number of pages including cover sheet, attachment, and document: 3
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ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor hereby sells and assigns, to TAKEDA CHEMICAL INDUSTRIES LTD., a corporation of Japan, 1-1, Doshomachi 4-chome, Chuo-ku, Osaka, Japan (hereinafter ASSIGNEE) all right, title and interest for the United States, its territories and possessions in and to the following invention and U.S. application filed thereon, and the entire right, title and interest in and to any and all Letters Patents which may be granted therefor in the United States, to be held and enjoyed by said ASSIGNEE, its successors, legal representatives and assigns to the full end of the term or terms for which any and all such Letters Patent may be granted as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made.

Title of Invention : Gastrointestinal Mucosa-Adherent Pharmaceutical Composition

United States Patent Application :

executed concurrently herewith
 executed on _____
 Serial No. _____ Filed _____

Each of the undersigned acknowledges that this sale and assignment includes any and all divisions or continuations of said United States Patent application, and any and all Letters Patent of the United States which may issue on any such applications, including any and all reissues or extensions thereof.

Each of the undersigned hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all such Letters Patent to said ASSIGNEE, its successors or assigns in accordance herewith;

Each of the undersigned warrants and covenants that he has the full and unencumbered right to sell and assign the interests herein sold and assigned and that he has not executed and will not execute any document or instrument in conflict herewith;

Each of the undersigned further covenants and agrees he will communicate to said ASSIGNEE, its successors, legal representatives or assigns all information known to him relating to said invention or patent application and that he will execute and deliver any papers, make all rightful oaths, assist in and testify in any related proceedings including interferences or lawsuits concerning this application or continuation, division or reissue thereof, and perform all other lawful acts deemed necessary or desirable by said ASSIGNEE, its successors, legal representatives or assigns to obtain a grant of a valid United States Patent on said invention;

Each of the undersigned hereby grants ASSIGNEE and its legal representatives, the power to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment and specifically, the power to insert in the space provided above, the filing date and application number of the application when known.

In witness hereof, executed by the undersigned on the date(s) opposite the undersigned names.

NAMES AND SIGNATURES OF INVENTORS		
1.Name: AKIYAMA Yohko	Signature: <i>Yohko Akiyama</i>	Date: <i>August 27, 1999</i>
2.Name: NAGAHARA Naoki	Signature: <i>Naoki Nagahara</i>	Date: <i>August 27, 1999</i>
3.Name: KITANO Megumi	Signature: <i>Megumi Kitano</i>	Date: <i>Aug 26, 1999</i>
4.Name: NAKAO Masafumi	Signature: <i>Masafumi Nakao</i>	Date: <i>August 27, 1999</i>
5.Name:	Signature:	Date:
6.Name:	Signature:	Date:
NAMES AND SIGNATURES OF WITNESSES*		
Name/ NAITO Hideaki For:	Signature: <i>Hideaki Naito</i>	Date: <i>August 26, 1999</i>
Name/ NAITO Hideaki For: 1, 2, 4	Signature: <i>Hideaki Naito</i>	Date: <i>August 27, 1999</i>
Name/ For:	Signature:	Date:
Name/ For:	Signature:	Date:
Name/ For:	Signature:	Date:
Name/ For:	Signature:	Date:

*Notice for Witnesses! Please indicate which inventor(s) you are signing for by writing the corresponding numbers after "For:"