

03-29-1999

FORM PTO-1595 (modified)  
(Rev. 6-93)

RE

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

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

1. Name of conveying party(ies):  
Junichi MATSUI, Naoki TARUI,  
Yu MOMOSE, and Ken-ichi NARUO

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

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.

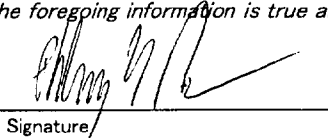
3. Nature of conveyance:  
 Assignment  Merger  
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4. Application number(s) or patent number(s):  
If this document is being filed together with a new application, the execution date of the application is : \_\_\_\_\_  
A. Patent Application No.(s)  
B. Patent No.(s) 09/272747  
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  
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*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)  March 11, 1999  
Name of the Person signing Signature Date

Total number of pages including cover sheet, attachment, and document: 2

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10530 U.S. PAT. 09/272747

# 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 :

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.

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

NAMES AND SIGNATURES OF INVENTORS		
1.Name: Junji MATSUI	Signature: <i>Junji Matsui</i>	Date: <i>March 4, 1999</i>
2.Name: Naoki TARUI	Signature: <i>Naoki Tarui</i>	Date: <i>March 4, 1999</i>
3.Name: Yu MOMOSE	Signature: <i>Yu Momose</i>	Date: <i>March 4, 1999</i>
4.Name: Ken-ichi NARUO	Signature: <i>Kenichi Naruo</i>	Date: <i>March 4, 1999</i>
5.Name:	Signature:	Date:
6.Name:	Signature:	Date:
NAMES AND SIGNATURES OF WITNESSES		
Name/ For: <i>Eisho SUGINO</i> <i>1-4</i>	Signature: <i>Eisho Sugino</i>	Date: <i>March 4, 1999</i>
Name/ For: <i>Takashi SANTOH</i> <i>1, 2</i>	Signature: <i>Takashi Santoh</i>	Date: <i>March 4, 1999</i>

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