AD 581/40	09/242890
AD 581/40 2-25-99	424 Rec'd PCT/PTO 2 5 FEB 1999
FORM PTO-1595 (modified) RE 09-22 (Rev. 6-93)	
OMB No. 0651-0011(exp. 4/94) To the Honorable Commissioner of Patents and	1197 al documents or copy thereof
1. Name of conveying party(ies):	2. Name and address of receiving party(ies):
Kazuhiro OGI and Haruo ONDA	Name: TAKEDA CHEMICAL INDUSTRIES, LTD.
Additional name(s) of conveying party(ies) attached? <u>No</u> 3. Nature of conveyance: <u>XX</u> Assignment Merger	Internal Address: Street Address: <u>1-1, Doshomachi 4-chome, Chuo-ku</u> City: <u>Osaka</u> , Country: <u>Japan</u> Zip: <u>540-8645</u>
Security Agreement Change of Name Other Execution Date:	Additional name(s) & address(es) attached? <u>No.</u>
	B. Patent No.(s) ers attached? <u>No</u>
5. Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: <u>1</u>
Name: <u>Philippe Y. Riesen</u> Takeda Chemical Industries, Ltd. Intelloctual Property Department	7. Total fee (37 C.F.R. §3.41)
Screet Address: <mark>17-85, Jusohonmachi 2-chome,</mark> <u>Yodogawa-ku</u>	XX Authorized to be charged to deposit account
City: Osaka Country Japan Zip: 532-8686	<ol> <li>Deposit account number: <u>500799</u></li> <li>(Attach duplicate copy of this page if paying by deposit account)</li> </ol>
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document.     MMMM       Philippe Y. Riesen (No. 35,657)     MMMM       Name of the Person signing     Signature	n is true and correct and any attached copy is a true copy of the original February 19,1999 Date er sheet, attachment, and document: <u>2</u>
	required cover sheet information to: Trademarks, Box Assignments

Washington, D.C. 20231

PATENT REEL: 010242 FRAME: 0226

## 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 : NOVEL PROTEIN, ITS PRODUCTION AND USE

United States Patent Application :

[X] 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.

NAMES AND SIGNATURES OF INVENTORS		
1.Name: Kazuhiro OGI	Signature: Kazuhin Oge	Date: 5 Jebruary
2.Name: Haruo ONDA	Signature: Haruo Onda	Date: 5. February
3.Name:	Signature:	Date:
4.Name:	Signature:	Date:
5.Name:	Signature:	Date:
6.Name:	Signature:	Date:
NAMES AND SIGNATURES OF WITNESSES		
Name/ Yugo HABATA	Signature:	Date: 15 February
For: Kazuhiro OGI	Jugo Hulanter	1999
Name/ Satoshi KUMANO	Signature:	Date: 2/15/99
For: Haruo ONDA	Signature: Salehi Kuman	/

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

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

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## **RECORDED: 02/25/1999**