## 88 Rec'd PCT/PTO 08 JAN1997 08/750983

	FORM PTO-1595 (modified)	06-16-199	98	SHEET	U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office	
	OMB No. 0651-0011 (exp. 4/94)			Y	08/750983	
	To the Honorable Commissioner of Pater	100738057	7	tached origin	al documents or copy thereof.	
	Name of conveying party(ies): .		2. Name an		receiving party(ies):	
	Takeo MORIYA, Yuichi HIKICHI, Yumiko MORIYA and Takamasa YAMAGUCHI  Additional name(s) of conveying party(ies) attached? No		Name: TAKEDA CHEMICAL INDUSTRIES, LTD.			
			Internal Address:			
6			Street Address: <u>1-1, Doshomachi 4-chome, Chuo-ku,</u> Osaka-shi			
	3. Nature of conveyance:  XX Assignment _ Merger _ Security Agreement _ Change of Name _ Other		USaka-si	<u>II</u>		
3-/ (			City: <u>Osaka</u> , State: <u>Japan</u> ZIP: <u>541</u>			
7						
3	Execution Date: November 27, 1996		Additional name(s) & address(es) attached? No			
	4. Application number(s) or patent number	per(s):				
	If this document is being filed together A. Patent Application No.(s)	er with a new application, t	he execution B. Patent N		pplication is: November 27, 1996	
	Additional numbers attached? <u>No</u>					
	<ol><li>Name and address of party to whom concerning document should be maile</li></ol>	•	6. Total nur involved:	_	cations and patents	
	Name: Harold C. Wegner		7 Total fee	137 C E D &	3.41) \$40.00	
	Internal Address: FOLEY & LARDNE	<u>R</u>	XX Enci		3.41)	
	Street Address: 3000 K Street. N.W	Suite 500			charged to deposit account	
	City: Washington, State: DC ZIP: 20007-5109		8. Deposit	account numi	ber: 19-0741	
					f this page if paying by deposit account)	
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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.  Stephen B. Maehius  Harold-G. Wegner  Name of Person Signing  Signature  January 8, 1997  Date					
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PATENT REEL: 9238 FRAME: 0114

## **ASSIGNMENT**

1						
	<del>-</del>	n, the receipt and sufficiency of which are hereby as sold and assigned, and by these presents hereby				
name and address of assignee		ries, Ltd. of 1-1, Doshomachi a-shi, OSAKA 541 JAPAN				
	(hereinafter ASSIGNEE) all right, title and interest for the United States, its territories and possessions in and to his invention relating to					
title of invention	PROCESS FOR PRODUCING ACID OR SALTS THEREOF	D-PANTOIC ACID AND D-PANTOTHENIC				
	as set forth in his United States Patent App	lication				
check one	executed concurrently herevex executed on November  Serial No.	27, 1996				
	in and to said United States Patent Application including any and all divisions or continuations thereof and in and to any and all Letters Patent of the United States which may issue on any such application or for said invention, including any and all reissues or extensions thereof, 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 be made;  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, testify in any legal proceedings and perform all other lawful acts deemed necessary or desirable by said ASSIGNEE, its successors, legal representatives or assigns to perfect title to said invention, to said application including divisions and continuations thereof and to any and all Letters Patent which may be granted therefor or thereon, including reissues or extensions, in said ASSIGNEE, its successors, or assigns or to assist said ASSIGNEE, its successors, legal representatives or assigns in obtaining, reissuing or enforcing Letters Patent of the United States for said invention;  Each of the undersigned hereby grants the firm of FOLEY & LARDNER the power to insert in this Assignment any further identifi					
names and signatures						
of inventors	Yumiko Moriya date 1996 Name: Yumiko MORIYA	Name: Takamasa YANAGUCHI				
	date	date				
	Name:	Name:				

Note: Prima facie evidence of execution may optionally be obtained by execution of this document before a U.S. Consul or before a local officer authorized to administer oaths whose authority is proved by a certificate from a U.S. Consul.

Nov. 27,

PATENT

Name: Sadao ASANO

RECORDED: 01/08/1997 REEL: 9238 FRAME: 0115

Name: Yasuhiro SUMINO

names and

signatures of

witnesses