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To the Honorable Commissioner of Patents

Please record the attached original documents or copy thereof.

1. Name of conveying party(ies): Shigenori OHKAWA, Tadatoshi HASHIMOTO and Kohji FUKATSU  
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, State: Japan ZIP:  
Additional name(s) & address(es) attached? No

3. Nature of conveyance:  
 Assignment  Merger  
 Security Agreement  Change of Name  
 Other   
Execution Date: October 19, 1998

4. Application number(s) or patent number(s): 09242067  
If this document is being filed together with a new application, the execution date of the application is: October 19, 1998  
A. Patent Application No.(s) 2.08.99  
B. Patent No.(s)  
Additional numbers attached? No

5. Name and address of party to whom correspondence concerning document should be mailed:  
Name: Colin G. Sandercock  
Internal Address: FOLEY & LARDNER  
Street Address: 3000 K Street, N.W., Suite 500  
City: Washington, State: D.C. ZIP: 20007-5109

6. Total number of applications and patents involved: 1  
7. Total fee (37 C.F.R. § 3.41) . . . . . \$40.00  
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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.*  
Colin G. Sandercock      Susan E. Shaw McKeep      February 8, 1999  
Name of Person Signing      Signature #39,294      Date

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

Mail documents to be recorded with required cover sheet information to:  
Commissioner of Patents & Trademarks, Box Assignments  
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**ASSIGNMENT**

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor has sold and assigned, and by these presents hereby sells and assigns, unto **TAKEDA CHEMICAL INDUSTRIES, LTD.,**

name and  
address of  
assignee

*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 his invention relating to

title of  
invention

Cyclic Ether Compounds, Their Production and Use

as set forth in his United States Patent Application

check one

- executed concurrently herewith
- executed on \_\_\_\_\_
- Serial No. \_\_\_\_\_ Filed \_\_\_\_\_

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 been 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 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		
Name: Shigenori OHKAWA	Signature: <i>Shigenori Ohkawa</i>	Date: Oct 19 1998
Name: Tadatoshi HASHIMOTO	Signature: <i>T. Hashimoto</i>	Date: Oct. 19, 1998
Name: Kohji FUKATSU	Signature: <i>Kohji Fukatsu</i>	Date: Oct 19, 1998
Name:	Signature:	Date:

NAMES AND SIGNATURES OF WITNESSES		
Name: Masaki SETOH	Signature: <i>Masaki Setoh</i>	Date: Oct 19, 1998
Name: Takuya ABE	Signature: <i>Takuya Abe</i>	Date: Oct 19, 1998

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