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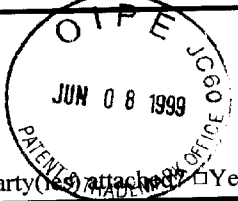


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| <p>3. Nature of Conveyance:</p> <p><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other</p> <p>Execution Date: April 15, 1999</p> | <p>Additional name(s) and address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> |



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:

| | |
|---|-------------------------|
| <p>A. Patent Application No.(s) 08/784,949</p> | <p>B. Patent No.(s)</p> |
| <p>Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> | |

| | |
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| <p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, P.C. Attorneys at Law Fourth Floor 1755 Jefferson Davis Highway Arlington, Virginia 22202 0023-1478-0:KLH</p> | <p>6. Total applications and patents involved: 1</p> <p>7. Total fee (37 CFR 3.41): \$40.00</p> <p><input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Authorized to be charged to deposit account</p> <p>8. Deposit account number: 15-0030 (Attach duplicate copy of this page if paying by deposit account)</p> |
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PATENT
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ASSIGNMENT

WHEREAS, KABUSHIKI KAISHA KOBE SEIKO SHO of 3-18, 1-chome, Wakinohama-cho, Chuo-ku, Kobe 651, Japan, a corporation organized and existing under the laws of the Country of Japan is the exclusive owner, by assignment, of the application for letters patent of the United States of America Serial No. 08/784,949 filed January 16, 1997, and

WHEREAS, TAKEDA CHEMICAL INDUSTRIES, LTD. of 1-1, Doshomachi 4-chome, Chuo-ku, Osaka-shi, Osaka 541-0045, Japan, a corporation organized and existing under the laws of the Country of Japan (hereinafter referred to as "ASSIGNEE"), is desirous of acquiring an undivided one-half right, title and interest in and to said application for letters patent, the invention described therein, and in and to any and all Letters Patent that may be granted therefor in the United States and its territorial possessions;


NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00) and other valuable consideration, the receipt of which is hereby acknowledged, KABUSHIKI KAISHA KOBE SEIKO SHO by these presents do sell, assign and transfer unto said ASSIGNEE an undivided one-half right, title and interest for the territory of the United States of America in and to the aforesaid application for letters patent, the invention described therein and in and to any and all Letters Patent which may be granted therefor and in and to any and all divisions, continuations, reissues, substitutions and renewals thereof.

KABUSHIKI KAISHA KOBE SEIKO SHO hereby authorizes and requests that the Patent Office in the United States and its territorial possessions issue any and all of said Letters Patent, when granted, jointly to said ASSIGNEE as the assignee of an undivided one-half right, title and interest, for the use and behoof of said ASSIGNEE, its successors and assigns, to the full end of the term for which said Letters Patent may be granted, to the extent hereby assigned.

IN TESTIMONY WHEREOF, KABUSHIKI KAISHA KOBE SEIKO SHO has caused these presents to be signed by its officer hereunto duly authorized.

KABUSHIKI KAISHA KOBE SEIKO SHO

Date: April 15, 1999

By: 
Name: Masumi SATO
Title: Executive Vice President