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To the Honorable Assistant Commissioner for Patents. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):  
Kyoko TAMAO and Yohei ITOI

Additional name(s) of conveying party(ies) attached?  
 yes  no

2. Name and address of receiving party(ies)?

Name:  
TAKASAGO INTERNATIONAL CORPORATION  
Internal Address:  
19-22, Takanawa 3-chome, Minato-ku, Tokyo, Japan  
Street Address:  
Same as above

City State Zip

Additional name(s) & address(es) attached?  
 yes  no

Execution Date: March 2, 1998

3. Nature of Conveyance:

Assignment  Merger  
 Security Agreement  Change of Name  
 Other

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:  
March 2, 1998

A. Patent Application No.(s) | B. Patent No(s).

Additional numbers attached?  Yes  No

5. Name and address of party to whom correspondence concerning document should be mailed:

SUGHRUE, MION, ZINN, MACPEAK & SEAS  
2100 Pennsylvania Avenue, N.W.  
Suite 800  
Washington, D.C. 20037-3202

6. Total number of applications and patents involved:  
One (1)

7. Total Fee (37 CFR 3.41): \$ 40.00  
 Enclosed. Please charge any underpayment in connection with this Assignment to Deposit Account No. 19-4880.  
 Authorized to be charged to Deposit Account

8. Deposit Account No.  
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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.

*Waddell A. Biggart*  
Name Waddell A. Biggart Reg. No. 24,861 Date March 11, 1998

TOTAL NUMBER OF PAGES INCLUDING COVER SHEET, ATTACHMENTS AND DOCUMENT: 2

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

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Mail documents to be recorded with required cover sheet information to:  
Assistant Commissioner for Patents  
Box Assignments  
Washington, D.C. 20231

# Assignment

Whereas, I/We, Kyoko Tamao of Kyoto, Japan and Yohei Itoi of Shiga, Japan

hereinafter called assignor(s), have invented certain improvements in OPTICALLY ACTIVE PHOSPHINE DERIVATIVE HAVING VINYL GROUP, POLYMER PRODUCED USING THE SAME AS MONOMER, AND TRANSITION METAL COMPLEXES OF THESE and executed an application for Letters Patent of the United States of America therefor on March 2, 1998 ; and

Whereas, TAKASAGO INTERNATIONAL CORPORATION of 19-22, Takanawa 3-chome, Minato-ku, Tokyo, Japan (assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

I/We, the above named assignor(s), hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America, including the right to claim priority under 35 U.S.C. §119, and I/we request the Commissioner of Patents to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and I/we will execute without further consideration all papers deemed necessary by the assignee in connection with the United States application when called upon to do so by the assignee.

I/We hereby authorize and request my attorneys SUGHRUE, MION, ZINN, MACPEAK & SEAS of 2100 Pennsylvania Avenue, N.W., Washington, D.C. 20037-3202 to insert here in parentheses (Application number \_\_\_\_\_, filed \_\_\_\_\_) the filing date and application number of said application when known.

Date: Mar/2/1998 s/ Kyoko Tamao  
Kyoko Tamao

Date: Mar/2/1998 s/ Yohei Itoi  
Yohei Itoi

Date: s/ \_\_\_\_\_

Date: s/ \_\_\_\_\_

Date: s/ \_\_\_\_\_

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)