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9-29-06

To the Director of the U.S. Patent and Trademark Office: Please return the enclosed documents or the new address(es) below.

1. Name of conveying party(ies):
Akira Amano (8/22/2006), Daisuke Igarashi
(8/16/2006), and Noboru Sayo (8/16/2006)

Additional name(s) of conveying party(ies) attached? Yes No

3. Nature of conveyance/Execution Date(s):

Execution Date(s): in parentheses after inventor name

Assignment Merger Change of Name

Security Agreement Joint Research Agreement

Government Interest Assignment

Executive Order 9424, Confirmatory License

Other

2. Name and address of receiving party(ies)

Name: Takasago International Corporation

Internal Address:

Street Address:

37-1, Kamata 5-chome, Ohta-ku

Tokyo

144-8721

JAPAN

City:

State:

Country: Zip:

Additional name(s) & address(es) attached? Yes No

4. Application or patent number(s): This document is being filed together with a new application.

A. Patent Application No.(s)
This application

B. Patent No.(s)

Additional numbers attached? Yes No

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

Name: Peter F. Corless
EDWARDS ANGELL PALMER & DODGE
LLP

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6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

- Authorized to be charged by credit card
- Authorized to be charged to deposit account
- Enclosed
- None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers Expiration Date

b. Deposit Account Number 04-1105
Authorized User Name Peter F. Corless

9. Signature:

Signature

September 29, 2006

Date

Peter F. Corless - 33,860
Name of Person Signing

Total number of pages including cover sheet, attachments, and documents: 7

10/10/2006 MJAMA1 00000154 041105 11540166

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ASSIGNMENT BY INVENTORS

THIS ASSIGNMENT, made this _____ day of _____, _____,

by Akira Amano; Daisuke Igarashi; and Noboru Sayo (hereinafter referred to as Assignors), residing at c/o Central Research Laboratory of Takasago International Corporation, 4-11, Nishiyawata 1-chome, Hiratsuka-shi, Kanagawa, 2540073, JAPAN; c/o Central Research Laboratory of Takasago International Corporation, 4-11, Nishiyawata 1-chome, Hiratsuka-shi, Kanagawa, 2540073, JAPAN; and c/o Central Research Laboratory of Takasago International Corporation, 4-11, Nishiyawata 1-chome, Hiratsuka-shi, Kanagawa, 2540073, JAPAN, respectively;

WHEREAS, Assignors have invented certain new and useful improvements in PHOSPHINES, TRANSITION METAL COMPLEXES CONTAINING THE SAME AS THE LIGAND, AND PROCESS FOR PRODUCTION OF OPTICALLY ACTIVE CARBOXYLIC ACIDS, set forth in a Patent application for which an International Application was filed on February 25, 2005, PCT/JP2005/003117, designating the United States; and

WHEREAS, Takasago International Corporation, a Corporation organized under and pursuant to the laws of Japan having its principal place of business at 37-1, Kamata 5-chome, Ohta-ku, Tokyo, 144-8721, JAPAN (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said inventions and said Application for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtained therefore and thereon.

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, Assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions and application for Letters Patent, and in and to any and all direct and indirect divisions, continuations and continuations-in-part of said application, and any and all Letters Patent in the United States and all foreign countries which may be granted therefore

and thereon, and reissues, reexaminations and extensions of said Letters Patent, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by Assignee, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignors, had this sale and assignment not been made.

AND for the same consideration, Assignors hereby represent and warrant to Assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles and/or interests that have arisen to Assignee under law or that have already been transferred to Assignee, Assignors are the sole and lawful owners of the entire right, title and interest in and to the said inventions and application for Letters Patent above-mentioned, and that the same are unencumbered and that Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, Assignors hereby covenant and agree to and with Assignee, its successors, legal representatives and assigns, that Assignors will sign all papers and documents, take all lawful oaths and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, without charge to Assignee, its successors, legal representatives and assigns, whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns, shall advise: that any proceeding in connection with said inventions, or said Patent application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions in any country, including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

AND Assignors hereby request the Commissioner of Patent and Trademarks to issue said Letters Patent of the United States to Assignee, as Assignee

of said inventions and the Letters Patent to be issued thereon, for the sole use and benefit of Assignee, its successors, legal representatives and assigns.

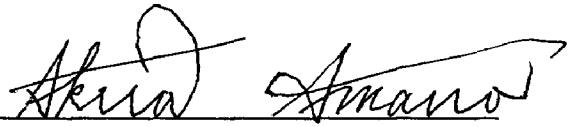
AND Assignors hereby grant the following individuals the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document:

EDWARDS ANGELL PALMER & DODGE LLP

All practitioners at Customer Number 21874

AND Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the invention was made.

August 22, 2006




Akira Amano

Witness:

August 22, 2006

Date



Norio SAEKI
Patent Attorney

August 16, 2006

Daisuke Igarashi

Daisuke Igarashi

Witness:

August 16, 2006

Date



Norio SAEKI
Patent Attorney

August 16, 2006

Noboru Sayo

Noboru Sayo

Witness:

August 16, 2006

Date

N. SAEKI

Norio SAEKI
Patent Attorney