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Nobuhiro ITO (April 19, 2005)
Tsuneaki MAESAWA (April 20, 2005)
Kazushige MUTO (April 19, 2005)
Kosaku HIROTA (April 14, 2005)
Hironao SAJIKI (April 14, 2005)

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

Wako Pure Chemical Industries, Ltd.
1-2, Doshomachi 3-Chome, Chuo-ku
Osaka-shi, Osaka
540-8605 JAPAN

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

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

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If this document is being filed together with a new application, the execution date of the application is: May __, 2005

A. Patent Application No.(s)

B. Patent No.(s)

05/16/2005 HKAYPASH 00000037 10534344

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Additional numbers attached? ☐ Yes ☒ No

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

Name: Douglas P. Mueller
Address: Hamre, Schumann, Mueller & Larson P.C.
P. O. Box 2902-0902
Minneapolis, MN 55402

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41): \$40.00

- ☒ Enclosed
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PATENT TRADEMARK OFFICE

PATENT
REEL: 017120 FRAME: 0498

ASSIGNMENT OF PATENT APPLICATION

WHEREAS,

1. Nobuhiro ITO residing at 1633, Oaza Matoba, Kawagoe-shi, Saitama 350-1101 and a citizen of Japan
2. Tsuneaki MAESAWA residing at 1633, Oaza Matoba, Kawagoe-shi, Saitama 350-1101 and a citizen of Japan
3. Kazushige MUTO residing at 1633, Oaza Matoba, Kawagoe-shi, Saitama 350-1101 and a citizen of Japan
4. Kosaku HIROTA residing at 3-22-5, Mitahora-higashi, Gifu-shi, Gifu 502-0003 and a citizen of Japan
5. Hironao SAJIKI residing at 23, 2-Chome, Kohei-cho, Gifu-shi, Gifu 502-0823 and a citizen of Japan

(hereinafter called "THE UNDERSIGNED") have made an invention and have executed an application for Letters Patent of the United States for this invention which was filed on _____, entitled A METHOD FOR DEUTERATION OF A HETEROCYCLIC RING, and which has been given application serial number _____ ;

and

WHEREAS WAKO PURE CHEMICAL INDUSTRIES, LTD. (hereinafter "ASSIGNEE") a corporation organized under the laws of Japan and having an office and place of business at 1-2, Doshomachi 3-Chome, Chuo-ku, Osaka-shi, Osaka 540-8605, Japan wishes to acquire the entire right, title and interest in and to said invention and patent application and any Letters Patent to be obtained therefor;

NOW, THEREFORE, for and in consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, THE UNDERSIGNED hereby sell, assign, and transfer to the ASSIGNEE, its successors, legal representative and assigns, the entire right, title and interest for the United States in and to the invention disclosed in said application, and in and to said application, as well as to all divisions, continuations, or renewals thereof, all Letters Patent which may be granted therefrom, and all reissues or extensions of such patents, and THE UNDERSIGNED hereby authorize and request the Commissioner of Patents of the United States to issue all Letters Patent for said invention to the ASSIGNEE of the entire right, title and interest in and to the same, in accordance with the terms of this instrument.

THE UNDERSIGNED hereby agree that THE UNDERSIGNED, their executors and legal representatives will make, execute and deliver (without charge but at the expense of the ASSIGNEE) any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said ASSIGNEE, its successors and representatives all facts known to the

UNDERSIGNED relating to said invention and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable to vest the ASSIGNEE, its successors or assigns, the entire right, title and interest in and to the said invention, patent applications, Letters Patent, rights, titles, benefits, privileges, and advantages hereby sold, assigned and conveyed, or intended so to be.

THE UNDERSIGNED represent and agree with said ASSIGNEE, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by the UNDERSIGNED, and that full right to convey the same as herein expressed is possessed by the UNDERSIGNED.

IN TESTIMONY WHEREOF, THE UNDERSIGNED have hereunto set their hand on the dates indicated below.

Nobuhiko Ito
Signature

April 19, 2005
Date

Tsunehiko Maesawa
Signature

April 20, 2005
Date

Kazushige Muto
Signature

April 19, 2005
Date

Kosaku Kikuchi
Signature

April 14, 2005
Date

Shin-ichi Hijioka
Signature

April 14, 2005
Date