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08-13-2004 ET MODIFIED Form PTO-1595 U.S. DEPARTMENT OF COMMERCE (Rev. 10/02) U.S. Patent and Trademark Office 102813476 ed original documents or copy thereof. To the Director of the U.S. Patent and Trademark Ottice 2. Name and address of receiving party(ies): 1. Name of conveying party(ies): Toru KONTANI YAMANOUCHI PHARMACEUTICAL CO., LTD. Junii MIYATA 3-11, Nihonbashi-Honcho 2-chome, Chuo-ku, Wataru HAMAGUCHI Tokyo 103-8411, Japan Tomoaki KAWANO Akio KAMIKAWA RATIONAL DRUG DESIGN LABORATORIES Hiroshi SUZUKI 17-1, Hasune 3-chome, Itabashi-ku, Kenii SUDO Tokyo 174-8612, Japan Additional name(s) of conveying party(ies) attached? ☐ Yes ☑ No 3. Nature of conveyance: ☑ Assignment ☐ Merger ☐ Security Agreement ☐ Change of Name ☐ Other Execution Date: July 30, 2004 Additional name(s) & address(es) attached?

Yes ☑ No 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: July 30, 2004 A. Patent Application No.(s) B. Patent No.(s) Not yet assigned Not yet assigned Additional numbers attached? ☐ Yes ☑ No 5. Name and address of party to whom correspondence 6. Total number of applications and patents involved: concerning document should be mailed: SUGHRUE MION, PLLC 7. Total fee (37 CFR 3.41): \$40.00 ☑ Enclosed. WASHINGTON OFFICE ☐ Authorized to be charged to Deposit Account No. 19-4880. 23373 The USPTO is directed and authorized to charge all required CUSTOMER NUMBER fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account. 8. Deposit Account Number: 19-4880 (Attach duplicate copy of this page if paying by deposit account) DO NOT USE THIS SPACE 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 August 6, 2004 ark Boland Date

> Total number of pages including cover sheet, attachments, and documents: 3 Mail documents to be recorded with required cover sheet information to: MAIL STOP ASSIGNMENT RECORDATION SERVICES Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450

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> PATENT REEL: 015668 FRAME: 0766

ASSIGNMENT

Whereas, I/we Toru KONTANI, Junji MIYATA, Wataru HAMAGUCHI, Tomoaki KAWANO, Akio KAMIKAWA, Hiroshi SUZUKI and Kenji SUDO, all of Ibaraki, Japan

hereinafter called assignor(s), have invented certain improvements in

Tetrahydro-2H-thiopyran-4-carboxamide Derivative and executed an application for Letters Patent of the United States of America therefor on

July 30, 2004; and

Whereas, YAMANOUCHI PHARMACEUTICAL CO., LTD.
3-11, Nihonbashi-Honcho 2-chome, Chuo-ku,
Tokyo 103-8411, Japan
RATIONAL DRUG DESIGN LABORATORIES
17-1, Hasune 3-chome, Itabashi-ku,
Tokyo 174-8612, 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 Director – U.S. Patent and Trademark Office 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.

l/We hereby authorize and request my/our attorneys SUGHRUE MION, PLLC of 2100 Pennsylvania Avenue, N.W., Washington, D.C. 20037-3213 to insert here in parentheses (Application number________, filed_______) the filing date and application number of said application when known.

Date: July 30, 2004

PATENT REEL: 015668 FRAME: 0767 Date: July 30, 2004

Date: July 30, 2004

RECORDED: 08/06/2004

Hiroshi Suzuki

Hiroshi Suzuki

Kenji Sudo 7

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

PATENT REEL: 015668 FRAME: 0768