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COMMERCE

| To the Director of the U.S. Patent and Tradem 1 03400090 1 Name of conveying party(ies): Shigeki YAMAMOTO Tsutomu SHIROYA Michiaki KADODE Toru MARUYAMA Kousuke TANI Toshihiko NAGASE Additional name(s) of conveying party(ies) attached? Yes No 3. Nature of conveyance/Execution Date(s): Execution Date(s): | | U.S. Patent and Trademark Office |
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| 1. Name of conveying party(ies): Shigoki YAMAMOTO Tsutomus HiROYA Tsutomus H | 1 18351 11511 2512 1151 | 1 |
| 1. Name of conveying party(ies): Shigeki YAMAMOTO Tsutomu SHIROYA Michiaki KADODE Toru MARUYAMA Kousuke TANI Toshihiko NAGASE Additional name(s) of conveying party(ies) attached? □ Yes ☑ No 3. Nature of conveyance/Execution Date(s): Execution Date(s): | To the Director of the U.S. Patent and Tradem. | JUSU the new address(es) below. |
| Shigeki YAMAMOTO Tsutomu SHIROYA Michiaki KADODE Toru MARUYAMA Kousuke TANI Toshihiko NAGASE Additional name(s) of conveying party(ies) attached? Yes No 3. Nature of conveyance/Execution Date(s): Execution Date(s): | | |
| Tsutomu SHIROYA Michiaki KADODE Toru MARUYAMA Kousuke TANI Toshihiko NAGASE Additional name(s) of conveying party(ies) attached? □ Yes ☑ No 3. Nature of conveyance/Execution Date(s): Execution Date(s): | | |
| Michiaki KADODE Toru MARUYAMA Kousuke TANI Toshihiko NAGASE Additional name(s) of conveying party(ies) attached? □ Yes ☑ No 3. Nature of conveyance/Execution Date(s): Execution Date(s): — April 13, 2007, respectively □ Assignment □ Change of Name □ Joint Research Agreement □ Government Interest Assignment □ Executive Order 9424, Confirmatory License □ Other 4. Application number(s) or patent number(s): A. Patent Application No.(s) Not yet assigned Additional numbers attached? □ Yes ☑ No 5. Name and address of party to whom correspondence concerning document should be mailed: SUGHRUE MION, PLLC WASHINGTON DC SUCRER NUMBER Chuo-ku, Osaka-shi, Osaka 541-8526 And Additional name(s) Aska-shi, Osaka 541-8526 And Additional name(s) attached? □ Yes ☑ No 6. Total number of address(es) attached? □ Yes ☑ No 7. Total fee (37 CFR 1.21(h) & 3.41): \$40.00 — Authorized to be charged by credit card None required (government interest not affecting title) | | |
| Kousuke TANI Toshihiko NAGASE Additional name(s) of conveying party(ies) attached? □ Yes ☑ No 3. Nature of conveyance/Execution Date(s): Execution Date(s): | Michiaki KADODE | |
| Toshihiko NAGASE Additional name(s) of conveying party(ies) attached? □ Yes ☑ No 3. Nature of conveyance/Execution Date(s): Execution Date(s): | Toru MARUYAMA | Japan |
| Additional name(s) of conveying party(ies) attached? □ Yes ☑ No 3. Nature of conveyance/Execution Date(s): Execution Date(s): ☐ April 13, 2007, respectively ☐ Assignment □ Merger ☐ Security Agreement □ Change of Name ☐ Joint Research Agreement ☐ Government Interest Assignment ☐ Executive Order 9424, Confirmatory License ☐ Other ☐ Other ☐ Additional name(s) & address(es) attached? □ Yes ☑ No A Patent Application No.(s) Not yet assigned ☐ Additional numbers attached? □ Yes ☑ No 5. Name and address of party to whom correspondence concerning document should be mailed: SUGHRUE MION, PLLC WASHINGTONDE SUGHRUE265550 ☐ Authorized to be charged by credit card ☐ Authorized to be charged to Deposit Account No. 19-4880. ☐ Enclosed. ☐ None required (government interest not affecting title) | Kousuke TANI | |
| 3. Nature of conveyance/Execution Date(s): Execution Date(s): | Toshihiko NAGASE | |
| Execution Date(s): April 13, 2007, respectively Assignment Merger Security Agreement Change of Name Joint Research Agreement Government Interest Assignment Executive Order 9424, Confirmatory License Other Application number(s) or patent number(s): A Application No.(s) Not yet assigned Additional name(s) & address(es) attached? Yes No This document is being filed together with a new application B. Patent No.(s) Not yet assigned Additional name(s) & address(es) attached? Yes No This document is being filed together with a new application B. Patent No.(s) Not yet assigned Additional name(s) & address(es) attached? Yes No 6. Total number of applications and patents involved: 1 T. Total fee (37 CFR 1.21(h) & 3.41): \$40.00 Authorized to be charged by credit card Authorized to be charged by credit card Authorized to be charged to Deposit Account No. 19-4880. Enclosed. None required (government interest not affecting title) | | |
| Date(s):April 13, 2007, respectively Assignment | Nature of conveyance/Execution Date(s): | |
| Security Agreement ☐ Change of Name ☐ Joint Research Agreement ☐ Government Interest Assignment ☐ Executive Order 9424, Confirmatory License ☐ Other 4. Application number(s) or patent number(s): ☐ This document is being filed together with a new application A. Patent Application No.(s) Not yet assigned Additional numbers attached? ☐ Yes ☑ No 5. Name and address of party to whom correspondence concerning document should be mailed: SUGHRUE MION, PLLC WASHINGTON DC SUGHRUEZ65550 — 65565 CUSTOMER NUMBER ☐ Change of Name | | |
| □ Joint Research Agreement □ Government Interest Assignment □ Executive Order 9424, Confirmatory License □ Other Additional name(s) & address(es) attached? □ Yes ☑ No This document is being filed together with a new application A. Patent Application No.(s) Not yet assigned Additional numbers attached? □ Yes ☑ No 5. Name and address of party to whom correspondence concerning document should be mailed: SUGHRUE MION, PLLC WASHINGTON DC SUGHRUE265550 CUSTOMER NUMBER Additional name(s) & address(es) attached? □ Yes ☑ No This document is being filed together with a new application B. Patent No.(s) Not yet assigned 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 No. 19-4880. ☑ Enclosed. □ None required (government interest not affecting title) | ☑ Assignment ☐ Merger | |
| Government Interest Assignment □ Executive Order 9424, Confirmatory License □ Other 4. Application number(s) or patent number(s): A. Patent Application No.(s) Not yet assigned Additional numbers attached? □ Yes ☑ No 5. Name and address of party to whom correspondence concerning document should be mailed: SUGHRUE MION, PLLC WASHINGTON DC SUGHRUEZ265550 CUSTOMER NUMBER □ Yes ☑ No 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 No. 19-4880. □ Enclosed. □ None required (government interest not affecting title) | ☐ Security Agreement ☐ Change of Name | |
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| /Paul F. Neils/ 2% (2007 | | 28 3 April 20, 2007 |
| Paul F. Neils Reg. No. 33,102 Date 선생생 | Paul F. Neils Reg. No. 33,102 | Date 45.80 Y |
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PATENT

REEL: 019227 FRAME: 0569

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ASSIGNMENT 2007

Whereas, I/we Shigeki YAMAMOTO, Tsutomu SHIROYA, Michiaki KADODE, Toru MARUYAMA, Kousuke TANI and Toshihiko NAGASE, all of Osaka, Japan

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

MEDICINAL COMPOSITION FOR INHALATION

and executed an application for Letters Patent of the United States of America therefor on

April 13, 2007 ; and

Whereas,

ONO PHARMACEUTICAL CO., LTD. of

1-5, Doshomachi 2-chome, Chuo-ku, Osaka-shi, Osaka 541-8526 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.

I/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: | April 13, 2007 | si Shigeti lamamoto |
|-------|----------------|---------------------|
| Date: | April 13, 2007 | sı Tsutomu Shiroya |
| Date: | April 13, 2007 | Vai al 7 |
| Date: | April 13, 2007 | sı Toshihiko Nagase |
| Date: | April 13, 2007 | sı Michiaki Kadode |
| Date: | April 13, 2007 | τ . ν |
| Date: | | s/ |
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(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)

PATENT REEL: 019227 FRAME: 0570

RECORDED: 04/20/2007