| | -2008 United States Patent and Trademark Of T $12/30800$ |
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| To the Director of the U.S. Patent ar 10353 | • |
| 1. Name of conveying party(ies): | 2. Name and address of receiving party(ies) |
| Ken NAKAHARA (12/02/2008), Hiroyuki YUJI (12/02/2008), Kentaro TAMURA (12/02/2008), Shunsuke AKASAKA (12/02/2008), | Name: ROHM CO., LTD. |
| Additional name(s) of conveying party(ies) attached? X Yes No | Street Address: |
| 3. Nature of conveyance/Execution Date(s): | |
| | 21, Saiin Mizosaki-cho, Ukyo-ku, Kyoto-shi |
| Execution Date(s): in parentheses after inventor name X Assignment Merger Change of Name | – Kyoto-fu, JAPAN |
| Security Agreement Joint Research Agreement | City: |
| Government Interest Assignment | State: |
| Executive Order 9424, Confirmatory License | Country: Zip: |
| Other | Additional name(s) & address(es) Yes X No |
| Additional numbers attache | d? Yes X No 6. Total number of applications and |
| 15. Name and address to whom correspondence | |
| 5. Name and address to whom correspondence concerning document should be mailed: | patents involved: |
| | |
| concerning document should be mailed: Name: Steven M. Rabin RABIN & BERDO, PC Internal Address: Atty. Dkt.: MIY-147NP | patents involved: |
| concerning document should be mailed: Name: Steven M. Rabin RABIN & BERDO, PC | patents involved: |
| concerning document should be mailed: Name: Steven M. Rabin RABIN & BERDO, PC Internal Address: Atty. Dkt.: MIY-147NP Street Address: 1101 14th St., NW | patents involved: I 7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 |
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| concerning document should be mailed: Name: Steven M. Rabin RABIN & BERDO, PC Internal Address: Atty. Dkt.: MIY-147NP Street Address: 1101 14th St., NW Suite 500 City: Washington | patents involved: I 7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 Authorized to be charged to deposit account Enclosed |
| concerning document should be mailed: Name: Steven M. Rabin RABIN & BERDO, PC Internal Address: Atty. Dkt.: MIY-147NP Street Address: 1101 14th St., NW Suite 500 City: Washington State: DC Zip: 20005 | patents involved: I 7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 Authorized to be charged to deposit account Enclosed None required (government interest not affecting title) |
| concerning document should be mailed: Name: Steven M. Rabin RABIN & BERDO, PC Internal Address: Atty. Dkt.: MIY-147NP Street Address: 1101 14th St., NW Suite 500 City: Washington State: DC Zip: 20005 Phone Number: (202) 371-8976 | patents involved: I 7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 Authorized to be charged to deposit account Enclosed None required (government interest not affecting title 8. Payment Information |
| concerning document should be mailed: Name: Steven M. Rabin RABIN & BERDO, PC Internal Address: Atty. Dkt.: MIY-147NP Street Address: 1101 14th St., NW Suite 500 City: Washington State: DC Zip: 20005 Phone Number: (202) 371-8976 Fax Number: (202) 408-0924 | patents involved: I 7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 Authorized to be charged to deposit account Enclosed None required (government interest not affecting title |
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PATENT REEL: 021960 FRAME: 0079

| | | FORM COVER SHEET (PTO-159 upplemental sheet) | 95) 🔔 🔬 / 😅 🖯 🤤 |
|--|-------------------------|---|-----------------|
| Additional Convey | ing Party(ies)/Exec | ution Date(s) (1. Continued) | : |
| Masashi KAWASAKI ((12/02/2008) | (12/02/2008), Atsushi T | SUKAZAKI (12/02/2008), and Aki | ra OHTOMO |
| Additional Assigne | es (2. Continued): | | |
| Assignee Name: | | | |
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| Street Address: | | | |
| City: | State: | Country: | Zip: |
| Assignee Name: | | | |
| Internal Address: | | | |
| Street Address: | | | |
| City: | State: | Country: | Zip: |
| Additional Applicat | tions and/or Patents | s (4. Continued): | |
| Additional Patent Applicatio 4A. Continued: | n Numbers | Additional Patent Numbers 4B. Continued: | |
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| | Additional numbers | attached? | 0 |

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Docket No.: MIY-147NP

PATENT REEL: 021960 FRAME: 0080

IMP15 Rec'd PCT/PTO 05 DEC 2008

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Attorney Reference

ASSIGNMENT OF APPLICATION FOR UNITED STATES LETTERS PATENT

WHEREAS Ken NAKAHARA, Hiroyuki YUJI, Kentaro TAMURA, Shunsuke AKASAKA, Masashi

KAWASAKI, Atsushi TSUKAZAKI and Akira OHTOMO,

hereinafter referred to collectively as the assignor, has invented a certain improvement relating to

ZnO-BASED SEMICONDUCTOR DEVICE

[x] the inventor(s) declaration for said application being executed concurrently with the execution of this instrument; said application to be filed in the United States Patent and Trademark Office;

[] said application having been filed in the United States Patent and Trademark Office on

, authorization being hereby given to my attorneys, Steven M. Rabin, Robert H. Berdo, Jr., Phillip G. Avruch, and Allen Wood of RABIN & BERDO, P.C., 1101 14th Street, N.W., Washington, D.C. 20005, to insert here in parentheses (Application Serial No. _____) the application serial number of said application when known;

AND WHEREAS _ ROHM CO., LTD.

hereinafter referred to as the assignee, is desirous of acquiring the entire right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof;

NOW THIS WITNESSETH, that for and in consideration of One Dollar (\$1.00), and other good and valuable consideration paid by said assignee to said assignor, the receipt of which is hereby acknowledged, said assignor hereby assigns, sells and transfers to said assignee, and said assignee's successors and assigns, the full and exclusive right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof; said assignee, and said assignee's successors and assigns, to have, hold, exercise and enjoy the said application, including any and all divisions and continuations thereof, and the said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof, with all the rights, powers, privileges and advantages in anywise arising from or appertaining thereto, for and during the term or terms of any and all such patents when granted, including any and all renewals, reissues and prolongations thereof, in as ample and beneficial a manner as the said assignee, and said assignee's successors and assigns, in as ample and beneficial a manner as the said assigner might or could have held and enjoyed the same, if this assignment had not been made.

AND said assignor hereby agrees to perform, upon the request of said assignee, or said assignee's successors or assigns, any and all acts relating to the obtaining or to the asserting of said patents, including any and all renewals, reissues and prolongations thereof.

AND said assignor authorizes and requests the Commissioner of Patents and Trademarks to issue Letters Patent on said application, and on any and all divisions and continuations thereof, to said assignee, and said assignee's successors and assigns, in accordance herewith.

| | EXECUTED, this <u>2nd</u> day of | December | , 200 <u>_</u> |
|------------|----------------------------------|---------------|----------------|
| WITNESSES: | | ASSIGNOR | : 1-5 |
| Signature: | | _ Signature _ | Min |
| Name: | | Name: | Ken NAKAHARA |
| | | | |
| WITNESSES: | | ASSIGNOR: | : |
| Signature: | | Signature: | Hiroyder Yull |
| Name: | | | Hiroyuki YUJI |
| Address | | | |
| | | | |

RABIN & BERDO, P.C., Washington, D.C.

ASSIGNMENT OF APPLICATION FOR UNITED STATES LETTERS PATENT F

| Page | 2 | of | 2 | |
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| WITNESSES: | |
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| Signature: | |
| Name: | |
| Address | • · · · · · · · · · · · · · · · · · · · |

| ASSIGNOR: | | _ |
|------------|----------------------|--------|
| Signature: | Kentaro | Jamura |
| Name: | Kentaro [·] | TAMURA |

WITNESSES:

| Signature: | | | . <u>.</u> |
|------------|------|------|------------|
| Name: | | | |
| Address | | | |

| ASSIGNOR: | Shunsuke Akasaka |
|------------|------------------|
| Signature: | |
| Name: | Shunsuke AKASAKA |
| | |

WITNESSES:

ASSIGNOR: Signature: 200 Name: Masashi KAWASAKI

ASSIGNOR: Signature: <u>Atsushi</u> 54 Name: Atsushi TSUKAZAKI

WITNESSES: Signature:

WITNESSES:

| olgnature | |
|-----------|--|
| Name: | |
| Address | |

Signature:

Name: _____ Address_____

ASSIGNOR:

Signature: ______A, //4 tur

Name: Akira OHTOMO

RECORDED: 12/05/2008