FORM PTO-1619A

Expires 06/30/99 OMB 0651-0027

08-09-2001



U.S. Department of Commerce Patent and Trademark Office **PATENT**

101805292 — RECORDATION FORM COVER SHEET **PATENTS ONLY**

| O: The Commissioner of Patents and Trademarks: Please record the attached original document(s) or cop(ies). | | |
|---|--|--|
| Submission Type | Conveyance Type | |
| New 07/27/31 | Assignment Security Agreemen | t 114 |
| Resubmission (Non-Recordation) Document ID# | License Change of Name | 0946 U |
| Correction of PTO Error Reel # Frame # | Merger U.S. Government (For Use ONLY by U.S. Government Agencies | ic |
| Corrective Document Reel # Frame # | | ret File |
| Conveying Party(ies) | Mark if additional names of conveying parties attach | ned Execution Date |
| Name (line1)MANDAL, Chhandomay | | Month Day Year 07182001 |
| Name (line2) | | |
| Second Party | | Execution Date Month Day Year |
| Name (line1)WAGENER, Peter J. | 0/9/7/1/ | 07192001 |
| Name (line2) | 7/6/1143 | |
| Receiving Party | Mark if additional names of receiving | g parties attached |
| Name (line 1) Sun Microsystems, Inc | ·· | If document to be recorded is an assignment and the |
| Name (line 2) | | receiving party is not domiciled in the United States, an appointment of a domestic |
| Address (line 1) 901 San Antonio Road | | representative is attached. (Designation must be a separate document from |
| Address (line 2) | | Assignment.) |
| Address (line 3) Palo Alto | CA 94303 State/Country Zip Code | |
| Domestic Representative Name and Ac | <u> </u> | |
| Domestic Representative Rame and Ac | | |
| Name | | |
| Address (line 1) | | |
| Address (line 2) | | |
| Address (line 3) | | |
| Address (line 4) | | |
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PATENT

REEL: 012044 FRAME: 0708

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| OMB 0651-0027 |

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| OMB 0651-0027 | PATENT ' | | | |
|--|----------------------------|--|--|--|
| Correspondent Name and Address Area Code and Telephone Number (617) 3 | 67-4600 | | | |
| Name Paul E. Kudirka, Esq. | | | | |
| Address (line 1) Kudirka & Jobse, LLP | | | | |
| Address (line 2) One State Street | | | | |
| Address (line 3) Suite 1510 | | | | |
| Address (line 4) Boston, MA 02109 | | | | |
| Pages Enter the total number of pages of the attached conveyance document including any attachments. | # 3 | | | |
| Application Number(s) or Patent Number(s) Mark if additional number either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same | | | | |
| Patent Application Number(s) Patent Number | er(s) | | | |
| | | | | |
| If this document is being filed together with a <u>new</u> Patent Application, enter the date the patent application was signed by the first named executing inventor. | Month Day Year 07182001 | | | |
| Patent Cooperation Treaty (PCT) PCT PCT PCT | PCT | | | |
| Enter PCT application number only if a U.S. Application Number PCT PCT Has not been assigned. | PCT | | | |
| Number of Properties Enter the total number of properties involved. # 1 | | | | |
| Fee Amount for Properties Listed (37 CFR 3.41): \$40.00 | | | | |
| Method of Payment: Enclosed Deposit Account | | | | |
| Deposit Account (Enter for payment by deposit account or if additional fees can bee charged to the account.) Deposit Account Number: # 02-3038 | | | | |
| Authorization to charge additional fees: Yes | No 🗌 | | | |
| 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. Charges to deposit account are authorized, as indicated herein. | | | | |
| Paul E. Kudirka Jung & Juling | 1/27/01 | | | |
| Name of Person Signing Signature | Date | | | |

PATENT

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RECORDATION FORM COVER SHEET CONTINUATION PATENTS ONLY

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| Conveying Party(ies) Mark if additional names of conveying parties attached Execution Date Month Day Year | | | | |
|---|---|--|--|--|
| Name (line1) MUSANTE, Mark J. | 07182001 | | | |
| Name (line2) | Execution Date Month Day Year | | | |
| Name (line1) DACOSTA, Jillian I. | 07182001 | | | |
| Name (line2) | S Execution Date Month Day Year | | | |
| Name (line1) ZHANG, Lanshan | <u> 7</u> 07182001 | | | |
| Name (line2) | Execution Date Month Day Year | | | |
| Name (line1) | 07192001 | | | |
| Name (line2) POKIGO, Roberta A. | | | | |
| Receiving Party(ies) Mark if additional names of receiving parties attached Enter additional Receiving Party(ies) | | | | |
| Name (line 1) | If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment | | | |
| Address (line 1) | of a domestic representative is attached. (Designation must be a separate document from | | | |
| Address (line 2) | Assignment.) | | | |
| Address (line 3) City | State/Country Zip Code | | | |
| Application Number(s) or Patent Number(s) Mark if additional numbers attached Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property). | | | | |
| Patent Application Number(s) | Patent Number(s) | | | |
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REEL: 012044 FRAME: 0710

ASSIGNMENT OF PATENT APPLICATION

Docket No. P6056

Whereas we, the undersigned, have made certain inventions or discoveries (or both) set forth in an application for Letters Patent of the United States of America entitled.

METHOD AND APPARATUS FOR MANAGING REMOTE DATA REPLICATION IN A DISTRIBUTED COMPUTER SYSTEM,

identified by Kudirka & Jobse, LLP, Docket No. P6056, which application was executed by us on the date(s) indicated below, and

Whereas SUN MICROSYSTEMS, INC., a Delaware corporation having a place of business at 901 San Antonio Road, Palo Alto, CA 94303, which, together with its successors and assigns, is hereinafter called "Assignee," is desirous of acquiring the title, rights, benefits and privileges hereinafter recited;

Now, therefore, for valuable consideration furnished by Assignee to us, receipt and sufficiency of which is hereby acknowledged, we do hereby, without reservation:

- 1. Assign, transfer and convey to Assignee the entire right, title and interest in and to said inventions and discoveries, said application for Letters Patent of the United States of America, any and all other applications for Letters Patent on said inventions and discoveries in whatsoever countries, including all divisional, renewal, substitute, continuation, Convention and non-Convention applications based in whole or in part upon said inventions or discoveries, or upon said applications, and any and all Letters Patent, reissues, reexaminations, and extensions of Letters Patent granted for said inventions and discoveries or upon said applications, and every priority right that is or may be predicated upon or arise from said inventions, said discoveries, said applications and said Letters Patent;
- 2. Authorize Assignee to file patent applications in any or all countries on any or all of said inventions and discoveries in our names or in the name of Assignee or otherwise as Assignee may deem advisable, under the International Convention or otherwise:
- 3. Authorize and request the Commissioner of Patents and Trademarks of the United States of America and the empowered officials of all other governments to issue or transfer all said Letters Patent to Assignee, as assignee of the entire right, title and interest therein or otherwise as Assignee may direct;
- Warrant that we have not knowingly conveyed to others any right in said inventions, discoveries, applications or patents or any license to use the same or to make, use or sell anything embodying or utilizing any of said inventions or discoveries; and that we have good right to assign the same to Assignee without encumbrance;

Assignment 1 of 3

PATENT REEL: 012044 FRAME: 0711 5. Bind our heirs, legal representatives and assigns, as well as ourselves, to do, upon Assignee's request and at Assignee's expense, but without additional consideration to us or them, all acts reasonably serving to assure that the said inventions and discoveries, the said patent applications and the said Letters Patent shall be held and enjoyed by Assignee as fully and entirely as the same could have been held and enjoyed by our heirs, legal representatives and assigns if this assignment had not been made; and particularly to execute and deliver to Assignee all lawful application documents including petitions. specifications, and oaths, and all assignments, disclaimers, and lawful affidavits in form and substance as may be requested by Assignee; to communicate to Assignee all facts known to us relating to said inventions and discoveries or the history thereof; and to furnish Assignee with any and all documents, photographs, models, samples and other physical exhibits in our control or in the control of our heirs, legal representatives or assigns which may be useful for establishing the facts of our conceptions, disclosures, and reduction to practice of said inventions and discoveries.

In testimony of which we have executed this Assignment of Patent Application on the date indicated next to our names.

| Date I signed the declaration: 07/18/2001. | |
|--|----------------------------------|
| Chhandomay Mandal | Today's Date: 07/18/2001 |
| Chhandomay Mandal One Bittersweet Road, Apt. #21, Nashua, NH 03060 | • |
| Date I Signed the declaration: July 15, 200 | |
| Wall/2 | Date: July 19, 2001 |
| Peter J. Wagener 125 Orchard Street, #3, Somerville, MA 02144 | |
| Date I Signed the declaration: 18. TUL: 200 I | |
| Mark J. Musante | Date: 18 - 701 - 200 / |
| 3 Lucille Avenue, Westford, MA 01886 | |
| Date I signed the declaration: 18. JUL-2001 | |
| Sellian of DaCvID | _Today's Date: <u>19・Ĵルム・2</u> の |
| Jillian I. DaCosta 210 Brookvillage Road, Nashua, NH 03062 | |
| Date I signed the declaration: 18 July 2001 Additional assignor name sheets attached. | |

Assignment 2 of 3

PATENT REEL: 012044 FRAME: 0712

ASSIGNMENT - SUPPLEMENTAL ASSIGNOR SHEET

| Lumbhan 35 | Today's Date: 18, July . 200) |
|--|-------------------------------|
| Lanshan Zhang | , |
| 20 Rocky Hill Road, Andover, MA 01810 | |
| Date I Signed the declaration: 7/19/01 | |
| Muberta a Policific Roberta A. Pokigo | Date: 7/(9/01 |
| Roberta A. Pokigo // | |
| 158 Concord Road, C8, Billarica, MA, 01821 | |

RECORDED: 07/27/2001

Assignment 3 of 3

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