

10-29-2001



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FORM PTO-1595
(Rev. 6-93)

OMB No. 0651-0011 (exp. 4/94)

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U.S. Department of Commerce

Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original document or copy thereof.

1. Name of conveying party:
PATRICIA SHANAHAN
ANDREW E. PHELPS 10-17-01

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

3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other

Execution Date: **October 16, 2001**

2. Name and address of receiving party:
Name: **SUN MICROSYSTEMS, INC.**

Internal Address:

Street Address: **901 San Antonio Road**

City: **Palo Alto** State: **CA** Zip: **94303**

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

10906 U.S. PTO
09/961532
10/17/01

4. Application number(s) or registration number(s):

If this document is being filed together with a new application, the execution date of the application is: **October 16, 2001**

A. Patent Application No.(s):

B. Patent No.(s):

Additional numbers attached? Yes No

6. Total number of applications and patents involved: **1**

7. Total fee (37 C.F.R. 3.41)----- \$ **40.00**
 Enclosed
 Authorized to be charged to deposit account
if check insufficient or inadvertently omitted

8. Deposit account number: **50-0786/2070.004200/RSB**
(Attach duplicate copy of this page if paying by deposit account)

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

Name: **Ruben S. Bains**
Williams, Morgan & Amerson, P.C.
7676 Hillmont, Suite 250

City: **Houston** State: **Texas** Zip: **77040**

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.

Ruben S. Bains *[Signature]* **October 17, 2001**

Name of Person Signing, Reg. No. **46,532** Signature Date

Total number of pages including cover sheet, attachments and documents: **2**

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EXPRESS MAIL NO.:	EL 798 366 104 US
DATE OF DEPOSIT:	October 17, 2001
I hereby certify that this paper or fee is being deposited with the United States Postal Service "EXPRESS MAIL POST OFFICE TO ADDRESSEE" service under 37 C.F.R. 1.10 on the date indicated above and is addressed to: Box Patent Application, Assistant Commissioner for Patents, Washington, D.C. 20231	
<i>[Signature]</i> Signature	

ASSIGNMENT

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, the undersigned, does hereby:

SELL, ASSIGN AND TRANSFER to SUN MICROSYSTEMS, INC. (the "Assignee"), having a place of business at 901 San Antonio Road, MS UPAL01-521, the entire right, title and interest for the United States and all foreign countries in and to any and all improvements which are disclosed in the application for United States Letters Patent, which has been executed by the undersigned concurrently herewith and is entitled, "UPDATING DIRECTORY CACHE," such application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent which have been or shall be filed in the United States and all foreign countries on any of such improvements; all original and reissued patents which have been or shall be issued in the United States and all foreign countries on such improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and claim priority based on such application in the United States;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such improvements to the Assignee;

WARRANT AND COVENANT 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 the full right to convey the same as herein expressed is possessed by the undersigned;

COVENANT, when requested and at the expense of the Assignee, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such improvements; execute all rightful oaths, declarations, assignments, powers of attorney and other papers; communicate to the Assignee all facts known to the undersigned relating to such improvements and the history thereof; and generally do everything possible which the Assignee shall consider desirable for vesting title to such improvements in the Assignee, and for securing, maintaining and enforcing proper patent protection for such improvements;

TO BE BINDING on the heirs, assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assignee.

Signature: Patricia Shanahan Date: 10/16/2001
Patricia Shanahan

Signature: Andrew E. Phelps Date: 10/16/01
Andrew E. Phelps