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FORM PTO-1595
(Rev. 6-93)



HEET

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

101015353

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

med 4-9-99

jc525 U.S. PTO
09/289801

04/09/99

1. Name of conveying party(ies):
 Gerard A. Wall
 James G. Hanko
 J. Duane Northcutt
 Alan T. Ruberg
 Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies)
 Name: SUN MICROSYSTEMS, INC.
 Internal Address: M/S PALO1-521
 Street Address: 901 San Antonio Road
 City: Palo Alto State: CA Zip: 94303
 Additional name(s) & address(es) attached? Yes No

3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other _____
 Execution Date: April 9, 1999
 April 9, 1999
 April 7, 1999
 April 9, 1999

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: April 9, 1999
 A. Patent Application No.(s) 09/289801
 B. Patent No.(s)
 Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:
 Name: J. D. HARRIMAN II
 Internal Address: HECKER & HARRIMAN
 Street Address: 1925 CENTURY PARK EAST
SUITE 2300
 City LOS ANGELES State CA Zip 90067

6. Total number of applications and patents involved: 1
 7. Total fee (37 CFR 3.41).....\$ 40.00
 Enclosed
 Authorized to be charged to deposit account
 8. Deposit account number:
08-1520
 (Attach duplicate copy of this page if paying by deposit account)

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01 EC:1581 Statement and signature. 40.00 OP

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.

J. D. HARRIMAN II
Name of Person Signing

Signature

April 9, 1999
Date

Total number of pages including cover sheet, attachments, and document: 3

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents and Trademarks, Box Assignments
Washington, D.C. 20231

PATENT
REEL: 9892 FRAME: 0309

ASSIGNMENT

In consideration of good and valuable consideration, the receipt of which is hereby acknowledged, We, the undersigned, GERARD A. WALL, JAMES G. HANKO, J. DUANE NORTHCUTT, and ALAN T. RUBERG, hereby sell, assign, and transfer to: SUN MICROSYSTEMS, INC., a corporation of Delaware, having a principal place of business at: 901 San Antonio Road, Palo Alto, California 94303 ("Assignee") its successors, assigns and legal representatives, 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: METHOD AND APPARATUS FOR ADAPTABLY PROVIDING DATA TO A NETWORK ENVIRONMENT and in and to said application and all divisional, continuing, substitute, renewal, reissue, and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said improvements; and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries on said improvements; and in and to all rights of priority resulting from the filing of said United States application;

Agree that said Assignee may apply for and receive Letters Patent for said improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns and legal representatives, 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 said improvements; execute all rightful oaths, assignments powers of attorney and other papers; communicate to said Assignee, its successors, assigns, and representatives, all facts known to the undersigned relating to said improvements and the history thereof; and generally do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns and legal representatives; and

Covenant with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Date: April 9, 1999

Gerard A Wall
Name: GERARD A. WALL

Date: April 9, 1999

James G. Hanko
Name: JAMES G. HANKO

Date: April 9, 1999

J. Duane Northcutt
Name: J. DUANE NORTHCUTT

Date: April 9, 1999

Alan T. Ruberg
Name: ALAN T. RUBERG