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FORM PTO-1584
1-31-92

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10-27-99



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U.S. Department of Commerce
Patent and Trademark Office
Attorney Docket No. == P4109

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

ATTN. BOX ASSIGNMENTS

NP/CSL

1. Name of conveying party(ies):
Lenup Sung, Thembile Mtwla, and
Ashizawa Kazunori
Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies):
Name: Sun Microsystems, Inc.
Internal Address:

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

Street Address: 901 San Antonio Road
City: Palo Alto
State: CA Zip Code: 94303
Additional name(s) & Address(es) attached?
 Yes No

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:
A. Patent Application Number(s):
09/371,616

B. Patent Number(s):
Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:
Name: John Robert Carpenter
Internal Address:
Street Address: 5520 56th Avenue South
City: Seattle
State: WA Zip: 98118-2515

6. Total number of applications and registrations involved:
1
7. Total fee (37 CFR 3.41): \$40
 Enclosed (Please charge deficiency to deposit account)
 Authorized to be charged to deposit account
Cashier Check No. 20 560252
drawn on WSECU Acct.
8. Deposit account number:

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.

Signature

Date 10/25/99

Total number of pages including cover sheet, attachments and documents: == 7

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ASSIGNMENT

In consideration of good and valuable consideration, the receipt of which is hereby acknowledged, I (we) the undersigned,

Ienup Sung of 20350 Stevens Creek Boulevard, Apartment 107, Cupertino, CA 95014, USA, citizen of the Republic of Korea,

Thembile Mtwa of 1947 San Luis Avenue, Apartment 9, Mountain View, CA 94043, USA, citizen of South Africa,

and

Ashizawa Kazunori of 154-0001, Tokyo-to, Setagaya-ku, Ikejiri, 3-18-26, Japan, citizen of Nippon (Japan),

hereby sell, assign, and transfer to SUN MICROSYSTEMS, INC., a Delaware Corporation, having a principle place of business at 901 San Antonio Road, Palo Alto, California, 94303, ("Assignee"), its successors, assigns, and legal representatives, my (our) entire right, title, and interest for the United States and all foreign countries, in and to any and all improvements that are disclosed in the application for United States Letters Patent,

which has been executed by the undersigned concurrently herewith,

which was filed on July 10, 1999 an assigned serial No. 09/371,616 and is entitled:

A METHOD AND SYSTEM FOR IMPLEMENTING USER-DEFINED CODESET
CONVERSIONS IN A COMPUTER SYSTEM

and in and to the application and all divisional, continuing, substitute, renewal, reissue, and all other applications for Letters Patent that have been or shall be filed in the United States and all foreign countries on the improvements; and in and to all rights of priority resulting from the filing of the United States application;

Agree that the Assignee may apply for and receive Letters Patent for the improvements in its own name; and that, when requested, without charge to, but at the expense of the Assignees, 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 improvements; execute all rightful oaths, assignments, powers of attorney, and other papers; communicate to the Assignee, its successors, assigns, and representatives, all facts known to the undersigned relating to the improvements and the history thereof; and generally do everything possible that the Assignee, its successors, assigns, or representatives consider desirable for aiding in

securing and maintaining proper patent protection for the improvements and for vesting title to the improvements and all applications for patents and all patents on the improvements, in the Assignee, its successors, assigns, and legal representatives; and

Covenant with the 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 the full right to convey the same as herein expressed is possessed by the undersigned.

Each inventor: please date and sign below:		Each inventor: Please also list the date that you signed the accompanying DECLARATION AND POWER OF ATTORNEY:
_____	_____	_____
Date (mm/dd/yr)	Ienup Sung	Date (mm/dd/yr)
_____	_____	_____
Date (mm/dd/yr)	Thembile Mtwá	Date (mm/dd/yr)
<u>09/14/99</u>	<u>Ashizawa Kazunori</u>	<u>09/14/99</u>
Date (mm/dd/yr)	Ashizawa Kazunori	Date (mm/dd/yr)