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U.S. DEPARTMENT OF COMMERCE

| (Rev. 6-93) 100914035 Patent 4 | | | | Patent and Trademark Office |
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| Additional name(s) of conveying party(les) attached? Yes X No | | ю | Internal Address: M/S PALO1 | -521 |
| 3. | Nature of conveyance: X Assignment _ Merger | | Street Address: 901 San Anton | nio Road |
| | Security Agreement Change of Name Other Execution Date: September 1, 1998 | | City: Palo Alto State: Additional name(s) & address(es) atta | |
| 4. | Application number(s) or patent number(s): 09/146,381 If this document is being filed together with a new application, the execution date of the application is: | | | |
| | A. Patent Application No.(s) | | B. Patent No.(s) | |
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| 5. | Name and address of party to whom correspondence concerning document should be mailed: | 6. | Total number of applications and | patents involved:1 |
| | Name: J. D. HARRIMAN II | _ 7. | Total fee (37 CFR 3.41) | \$_40.00 |
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| 9. | Statement and signature. To the best of my knowledge and belief, the foregoing infotrue copy of the original document. Frank M. Weyer Name of Person Signing | Signa | ture | November 23, 1998 Date |
| Total number of pages including cover sheet, attachments, and document: <u>8</u> | | | | |

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> PATENT REEL: 9612 FRAME: 0085

Attorney Docket No. 83000.1028/P3313/RSH

ASSIGNMENT

In consideration of good and valuable consideration, the receipt of which is hereby acknowledged, We, the undersigned, Amit Gupta, Elliot Poger, and Christoph Schuba, 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. [X] which was filed 9/1/98 and assigned Serial No. 09/146,381

and is entitled: METHOD AND APPARATUS FOR ENCODING CONTENT CHARACTERISTICS 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: 5 2 1 , 1998

Date: $\frac{59+2}{1998}$, 1998

Name: AMIT GUPTIA's the considence is being deposited the Constitution of Constitutions and Encoding addressed for Annalating and Constitution (Constitution). D.C. 20237. The

Name: ELLIQT POGER

Name: CHRISTOPH SCHUBA

PATENT **REEL: 9612 FRAME: 0086**

RECORDED: 11/27/1998