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Client Ref. No. P2915

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To the Honorable Asst. Commissioner for Patents

ments or copy thereof.

100829711

1. Name of conveying party(ies):

Michael C. Cilia
Don Nguyen
Gurpreet S. Dayal

2. Name and address of receiving party(ies):

Name: SUN MICROSYSTEMS, INC.

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

MS
4-8-98

Internal Address:

Street Address: 901 San Antonio Road, MS PAL01-521

City: Palo Alto State: California ZIP: 94303

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other:

Execution Date: Michael C. Cilia -- August 10, 1998
Don Nguyen -- August 10, 1998
Gurpreet S. Dayal -- August 10, 1998

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

4. Application number(s) or patent number(s). 09/107,757

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)

Additional numbers attached? Yes No

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

Name: Sujit B. Kotwal
TOWNSEND and TOWNSEND and CREW LLP
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San Francisco, California 94111-3834
(650) 326-2400

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6. Total number of applications and patents involved:

7. Total fee (37 CFR 3.41):..... \$ 40.00

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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.

Sujit B. Kotwal
Name of Person Signing

S. B. Kotwal
Signature

9-2-98
Date

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10. Change Correspondence Address to that of Part 5? Yes No

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PATENT
REEL: 9442 FRAME: 0869

ASSIGNMENT OF PATENT APPLICATION

WHEREAS, Michael C. Cilia of 1430 California Circle, MS MIL 4-130, Milpitas, California 95035, Don Nguyen of 1085 Tasman Drive, Sunnyvale, California 94089 and Gurpreet S. Dayal of 43853 N. Moray Street, Fremont, California 94539, hereinafter referred to as "Assignors," are the inventors of the invention described and set forth in the below identified application for United States Letters Patent:

Title of the Invention: **BGA PIN ISOLATION AND SIGNAL ROUTING PROCESS**

Filing date: June 30, 1998 Application No.: 09/107,757; and

WHEREAS, SUN MICROSYSTEMS, INC., a Delaware corporation, located at 901 San Antonio Road, M/S PAL01-521, Palo Alto, California 94303, hereinafter referred to as "Assignee," is desirous of acquiring an interest in the invention and application and in any Letters Patent and Registrations which may be granted on the same;

For good and valuable consideration, receipt of which is hereby acknowledged by Assignors, Assignors have assigned, and by these presents do assign to Assignee all right, title and interest in and to the invention and application and to all foreign counterparts (including patent, utility model and industrial designs), and in and to any Letters Patent and Registrations which may hereafter be granted on the same in the United States and all countries throughout the world, and to claim the priority from the application as provided by the Paris Convention. The right, title and interest is to be held and enjoyed by Assignee and Assignee's successors and assigns as fully and exclusively as it would have been held and enjoyed by Assignors had this assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignors further agree that Assignors will, without charge to Assignee, but at Assignee's expense, (a) cooperate with Assignee in the prosecution of U.S. Patent applications and foreign counterparts on the invention and any improvements, (b) execute, verify, acknowledge and deliver all such further papers, including patent applications and instruments of transfer and (c) perform such other acts as Assignee lawfully may request to obtain or maintain Letters Patent and Registrations for the invention and improvements

Date: 8/10/98

Don Nguyen
Don Nguyen

WITNESSES

8/10/98
Date

MC Cilia
Signature

MIKE CILIA
Print Name

8/10/98
Date

GSDayal
Signature

GS DAYAL
Print Name