



101545250

1. Name of conveying party(ies):

Debendra Das Sharma
Sharon M Ebner
John A Wickeraad
Joe P Cowan
Carl H Jackson

M.M. Co.

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

HEWLETT-PACKARD COMPANY
Intellectual Property Administration
P.O. Box 272400
Fort Collins, Colorado 80527-2400

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

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

3. Nature of Conveyance:

Assignment Merger Change of Name
 Security Agreement Other

Execution Date(s): 06/28/2000; 07/13/2000; 07/21/2000; 09/28/2000; 11/01/2000

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

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

A. Patent Application No.(s)

B. Patent No.(s)

Serial No.: 09/560,553 Date Filed: Apr 28, 2000

Additional numbers attached? NO

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

Records Manager
HEWLETT-PACKARD COMPANY
attn: C. Brazner-Morehead
19111 Pruneridge Ave, 44L-18
Cupertino, CA 95014

6. Total number of applications and patents involved: 1

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

Enclosed

Authorization to be charged to deposit account.

8. Deposit Account Number: 08-2025

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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.

2/01/2000 MTHA 1 00000212 082025 9503553

FC:581

40.00 CB

Candace Brazner-Morehead

Candace Brazner-Morehead

Nov 01, 2000

Name of Person Signing

Signature

Date

Total number of pages including cover sheet, attachments, and document: 6

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

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Mail document to be recorded with required cover sheet information to:

Commissioner for Patents
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Washington, D.C. 20231

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Intellectual Property Administration
P. O. Box 272400
Fort Collins, Colorado 80528-9599

ASSIGNMENT OF PATENT APPLICATION

I/We, the undersigned (each) have agreed and hereby agree to assign to HEWLETT-PACKARD COMPANY, a Delaware corporation having its principal place of business in Palo Alto, California, (hereinafter HP), in furtherance of my/our obligations to HP, and do hereby assign and transfer to HP, its successors and assigns, the entire right, title and interest, including the right of priority, in, to and under an application for Letters Patent of the United States entitled:

An Apparatus And Method For Ensuring Forward Progress In Coherent I/O Systems

Filing date: April 28, 2000

Serial No.: 09/560,553

and the invention(s) and improvement(s) set forth therein, and any and all continuations, continuations-in-part (C-I-P's), divisionals, and renewals of and substitutes for said application for said Letters Patent, and any and all Letters Patent of the United States and of countries foreign thereto which may be granted thereon or therefor; and any reissues, or reexaminations, or extensions of said Letters Patent.

I/we additionally authorize HP to file applications in my/our name for Letters Patent in any country, to be held and enjoyed by HP, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by me/us had this assignment, and transfer not been made;

AND I/we hereby covenant that I/we have full right to convey the entire interest herein assigned, and that I/we have not executed and will not execute any agreement in conflict herewith, and I/we further covenant and agree that I/we will, each time a request is made, and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said invention(s) or improvement(s), said application and said Letters Patent, to HP, its successors, assigns, nominees or legal representatives, and I/we agree to communicate to HP, or to its nominee, all known facts respecting said invention(s) or improvement(s), said application and said Letters Patent, to testify in any legal proceedings, to sign all lawful papers, to execute all disclaimers and divisionals, continuations, C-I-P's, reissue and foreign applications, to make all rightful oaths and declarations, and generally to do everything possible to aid HP, its successors, assigns, nominees and legal representatives to obtain and enforce, for its or their own benefit, proper patent protection for said invention(s) or improvement(s) in any and all countries provided the expenses which may be incurred by me/us in lending such cooperation and assistance are paid by HP;

AND I/we hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue to HP, as assignee of the entire right, title and interest, any and all Letters Patent for said invention(s) or improvement(s), including any and all Letters Patent of the United States which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of this assignment.

I/we further authorize and direct HP attorneys to insert the serial number and filing date of said application now identified by the attorney docket number and title set forth above as soon as the same shall have been made known to them by the United States Patent and Trademark Office.

IN WITNESS WHEREOF, I/we here into set my/our hand(s) and seal(s):

Debendra Das Sharma
Inventor's Signature (Seal)

Date Assignment Signed: 6 28 00

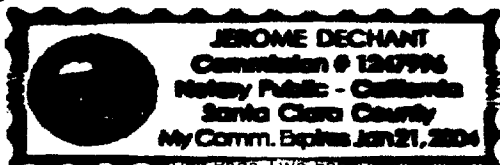
Inventor's Typed Name: Debendra Das Sharma

Date Application Signed: 6 28 00

State of California

County of Santa Clara

Before me this 28th day of June 2000, personally appeared Debendra Das Sharma who is personally known or proved to me on the basis of satisfactory evidence to be the person who acknowledged the foregoing instrument of assignment to be his/her free act and deed.



Jerome Dechant
Notary Public
My commission expires: 1-2-04

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Fort Collins, Colorado 80528-9599

ASSIGNMENT OF PATENT APPLICATION (cont.)

IN WITNESS WHEREOF, I we hereunto set my/our hand(s) and seal(s):

Sharon M. Ebner
Inventor's Signature (Seal)

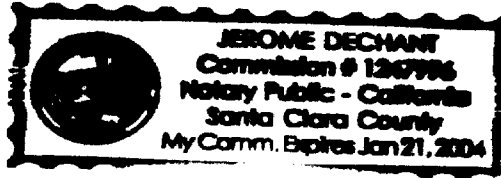
Date Assignment Signed: 7/13/2000

Inventor's Typed Name: Sharon M. Ebner

Date Application Signed: 7/13/2000

State of California)
County of Santa Clara)
ss.:

Before me this 13th day of July 2000, personally appeared Sharon M. Ebner who is personally known or proved to me on the basis of satisfactory evidence to be the person who acknowledged the foregoing instrument of assignment to be his/her free act and deed.



Jerome Dechant
Notary Public
My Commission expires: 1-21-04

Date Assignment Signed: _____

Inventor's Signature (Seal)

Inventor's Typed Name: John A. Wickeraad

Date Application Signed: _____

State of California)
County of Placer)
ss.:

Before me this ___ day of _____, personally appeared John A. Wickeraad who is personally known or proved to me on the basis of satisfactory evidence to be the person who acknowledged the foregoing instrument of assignment to be his/her free act and deed.

Notary Public
My commission expires: _____

Joe P. Cowan
Inventor's Signature (Seal)

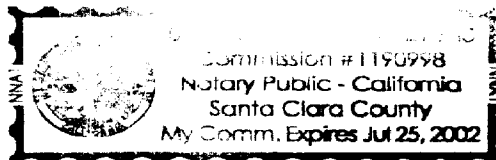
Date Assignment Signed: 11/1/00

Inventor's Typed Name: Joe P. Cowan

Date Application Signed: 11/1/00

State of Colorado California)
County of Weld Santa Clara)
ss.:

Before me this 1st day of Nov. 2000, personally appeared Joe P. Cowan who is personally known or proved to me on the basis of satisfactory evidence to be the person who acknowledged the foregoing instrument of assignment to be his/her free act and deed.



Patricia Brigney
Notary Public
My commission expires: July 25, 2002

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Fort Collins, Colorado 80528-9599

ASSIGNMENT OF PATENT APPLICATION (cont.)

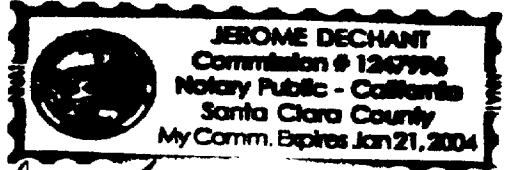
IN WITNESS WHEREOF, I we hereunto set my/our hand(s) and seal(s):

Sharon M. Ebner Date Assignment Signed: 7/13/2000
Inventor's Signature (Seal)

Inventor's Typed Name: Sharon M. Ebner Date Application Signed: 7/13/2000

State of California)
County of Santa Clara) s.:

Before me this 13th day of July 2000, personally appeared Sharon M. Ebner who is personally known or proved to me on the basis of satisfactory evidence to be the person who acknowledged the foregoing instrument of assignment to be his/her free act and deed.



Jerome Dechant
Notary Public
My commission expires: 1-21-04

John A. Wickeraad Date Assignment Signed: 7/21/00
Inventor's Signature (Seal)

Inventor's Typed Name: John A. Wickeraad Date Application Signed: 7/21/00

State of California)
County of Placer) s.:

Before me this 21 day of July 2000, personally appeared John A. Wickeraad who is personally known or proved to me on the basis of satisfactory evidence to be the person who acknowledged the foregoing instrument of assignment to be his/her free act and deed.



Kristine Marie Bright
Notary Public
My commission expires: KRISTINE MARIE BRIGHT

Inventor's Signature (Seal) Date Assignment Signed: _____

Inventor's Typed Name: Joe P. Cowan Date Application Signed: _____

State of Colorado)
County of Weld) s.:

Before me this ____ day of _____, personally appeared Joe P. Cowan who is personally known or proved to me on the basis of satisfactory evidence to be the person who acknowledged the foregoing instrument of assignment to be his/her free act and deed.

Notary Public
My commission expires: _____

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Fort Collins, Colorado 80528-9599

PATENT APPLICATION
ATTORNEY DOCKET NO. 10002521-1

ASSIGNMENT OF PATENT APPLICATION (cont.)

IN WITNESS WHEREOF, I we hereunto set my our hand(s) and seal(s):

Carl H. Jackson
Inventor's Signature (Seal) Date: Assignment Signed: 9/28/00

Inventor's Typed Name: Carl H. Jackson Date Application Signed: 9/28/00

State of Texas)
County of Collin) ss.:

Before me this 28 day of September, personally appeared Carl H. Jackson who is personally known or proved to me on the basis of satisfactory evidence to be the person who acknowledged the foregoing instrument of assignment to be his/her free act and deed.

Karen S. Stinnett
Notary Public
My commission expires: 1-11-03

Inventor's Signature (Seal) Date Assignment Signed: _____

Inventor's Typed Name: _____ Date Application Signed: _____

State of _____)
County of _____) ss.:

Before me this _____ day of _____, personally appeared _____ who is personally known or proved to me on the basis of satisfactory evidence to be the person who acknowledged the foregoing instrument of assignment to be his/her free act and deed.

Notary Public
My commission expires: _____

Inventor's Signature (Seal) Date Assignment Signed: _____

Inventor's Typed Name: _____ Date Application Signed: _____

State of _____)
County of _____) ss.:

Before me this _____ day of _____, personally appeared _____ who is personally known or proved to me on the basis of satisfactory evidence to be the person who acknowledged the foregoing instrument of assignment to be his/her free act and deed.

Notary Public
My commission expires: _____