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11/23/98

1. Name of conveying party(ies):

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Robert M. McGuire

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

HEWLETT-PACKARD COMPANY
Legal Department, M/S 20BN
3000 Hanover Street
Palo Alto, CA 94304

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

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

3. Nature of Conveyance:

Assignment Merger
 Security Agreement Change of Name
 Other

Execution Date(s): 09/17/98

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:

A. Patent Application No.(s)

Ser. No.: 09/160,054 Date Filed: 09/24/98

B. Patent No.(s)

-

Additional numbers attached? **NO**

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

Jerome Dechant RE: 10972033-1
HEWLETT-PACKARD COMPANY
Legal Department, IP Section
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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

(attach duplicate copy of this page if paying by deposit account.)

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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.

Jerome Dechant
Name of Person Signing

Signature

November 18, 1998
Date

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

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

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

11/27/1998 SBURNS 00000152 082025 09160054 Assistant Commissioner for Patents
Box Assignment
01 FC:581 40.00 CH Washington, D.C. 20231

When recorded please return to:
HEWLETT-PACKARD COMPANY
Legal Department, 20BN
P. O. Box 10301
Palo Alto, California 94303-0890

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:

RUNTIME DETECTION OF NETWORK LOOPS

Filing date: 09/24/98 Serial No.: 09/160,054

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, sale 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 hereunto set my/our hand(s) and seal(s):

Douglas E. O'Neil
Inventor's Signature (Seal)

Date Assignment Signed: 9/17/98

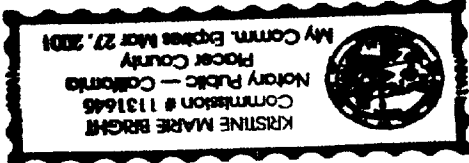
Inventor's Typed Name: Douglas E. O'Neil

Date Application Signed: 9/17/98

State of California)
County of Placer) ss.:

Before me this 17th Sept. 1998, personally appeared Douglas O'Neil 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**



(Use Page Two For Additional Inventor(s) Signature(s))

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ASSIGNMENT OF PATENT APPLICATION (cont.)

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

Robert Michael McGuire
Inventor's Signature (Seal)

Date Assignment Signed: 9-17-98

Inventor's Typed Name: Robert Michael McGuire

Date Application Signed: 9-17-98

State of California)
County of Placer) ss.:

Before me this 17th day of Sept. 1998, personally appeared Robert M. McGuire 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: _____

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: _____

(Use Page Three For Additional Inventor(s) Signature(s))