

03-09-2005

FORM PTO-1595

1-31-92

**ORIGINAL**

102955849

U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

Attorney Docket No. 200302583-2

## 1. Name of conveying party(ies):

A. William J. WALKER  
B. Paras A. SHAH  
C. James K. YU  
D. Kenneth JANSEN  
E. Vasileios BALABANOS  
F. Andrew D. OLSEN

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

**HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.**  
**20555 SH 249**  
**Houston, TX 77070**

Additional name(s) of conveying party(ies) attached ☒ Yes ☐ NoAdditional name(s) & address(es) attached? ☐ Yes ☒ No112959 U.S. PTO  
11/066038

022505

## 3. Nature of Conveyance:

☒ Assignment ☐ Merger ☐ Change of Name  
☐ Security Agreement ☐ Other

Execution Date(s): A. 04/30/04 B. 02/11/04 C. 01/05/04 D. 04/30/04 E. 04/22/04 F. 05/10/04  
G. 01/19/04

## 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: 01/05/04

A. Patent Application No.(s)

B. Patent No.(s)

Application No.:

Date Filed:

Confirmation No.:

Additional numbers attached? NO

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

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

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**DO NOT USE THIS SPACE**

## 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.*

Jonathan M. Harris

Name of Person Signing

Signature

Feb 25, 2005

Date

Total number of pages including cover sheet, attachments, and document: 9

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

**Do Not detach this portion**

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

**Mail Stop Assignment Recordation Services**  
**Director of the US Patent and Trademark Office**  
**PO Box 1450**  
**Alexandria, VA 22313-1450**

03/08/2005 DBYRNE 00000128 082025 11066038  
01 FC:8021 40.00 DA

**PATENTS ONLY**

Attorney Docket No. 200302583-2

1. Name of conveying party(ies):

G. Phillip M. JONES

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

**HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.**  
**20555 SH 249**  
**Houston, TX 77070**



When recorded please return to:

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

PATENT APPLICATION

ATTORNEY DOCKET NO. 200302583-2

ASSIGNMENT OF PATENT APPLICATION

I/We, the undersigned (each) have agreed and hereby agree to assign to HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P., a Texas Limited Partnership having its principal place of business in Houston, Texas, (hereinafter HPDC), in furtherance of my/our obligations to the Hewlett-Packard Company and its subsidiaries and affiliates, and do hereby assign and transfer to HPDC, 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:

METHOD AND SYSTEM FOR MIGRATING MEMORY SEGMENTS

Filing date: \_\_\_\_\_ Application No.: \_\_\_\_\_

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 HPDC to file applications in my/our name for Letters Patent in any country, to be held and enjoyed by HPDC, 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 HPDC, its successors, assigns, nominees or legal representatives, and I/we agree to communicate to HPDC, 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 HPDC, 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 HPDC;

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 HPDC, 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 the attorneys of record 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.

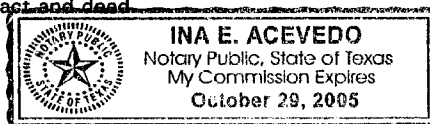
IN WITNESS WHEREOF, I/we hereunto set my/our hand(s) and seal(s):

X Phillip M. Jones Date Assignment Signed: 1/19/04  
Inventor's Signature (Seal)

Inventor's Typed Name: Phillip M. JONES Date Application Signed: 1/19/04

State of Texas )  
County of Williamson ) ss.:

Before me this 19 day of January, personally appeared Phillip M. JONES 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.



INA E. ACEVEDO  
Notary Public  
My commission expires:

When recorded please return to:

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

PATENT APPLICATION

ATTORNEY DOCKET NO. 200302583-2

ASSIGNMENT OF PATENT APPLICATION (cont.)

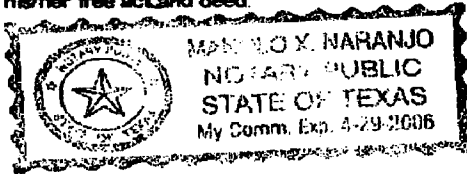
IN WITNESS WHEREOF, I/we hereunto set my/our hand(s) and seal(s):

Paras A. Shah Date Assignment Signed: 2/11/2004  
Inventor's Signature (Seal)

Inventor's Typed Name: Paras A. SHAH Date Application Signed: 2/11/2004

State of TEXAS )  
County of HARRIS ) ss.:

Before me this 11 day of FEBRUARY, personally appeared Paras A. SHAH 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.



Mario X. Naranjo  
Notary Public  
My commission expires:

SIGNED SEPARATELY

Date Assignment Signed: \_\_\_\_\_

Inventor's Signature (Seal)

Inventor's Typed Name: James K. YU Date Application Signed: \_\_\_\_\_

State of \_\_\_\_\_ )  
County of \_\_\_\_\_ ) ss.:

Before me this \_\_\_\_\_ day of \_\_\_\_\_, personally appeared James K. YU 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:

SIGNED SEPARATELY

Date Assignment Signed: \_\_\_\_\_

Inventor's Signature (Seal)

Inventor's Typed Name: William J. WALKER Date Application Signed: \_\_\_\_\_

State of \_\_\_\_\_ )  
County of \_\_\_\_\_ ) ss.:

Before me this \_\_\_\_\_ day of \_\_\_\_\_, personally appeared William J. WALKER 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))

Page 2 of 3

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Intellectual Property Administration  
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Fort Collins, Colorado 80527-2400

PATENT APPLICATION

ATTORNEY DOCKET NO. 200302583-2

ASSIGNMENT OF PATENT APPLICATION (cont.)

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

SIGNED SEPARATELY

Date Assignment Signed: \_\_\_\_\_

Inventor's Signature (Seal)

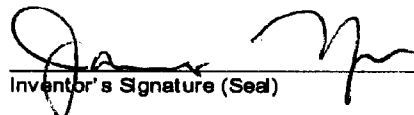
Inventor's Typed Name: Paras. A. SHAH

Date Application Signed: \_\_\_\_\_

State of \_\_\_\_\_ )  
County of \_\_\_\_\_ ) ss.: \_\_\_\_\_

Before me this \_\_\_\_\_ day of \_\_\_\_\_, personally appeared Paras. A. SHAH 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: \_\_\_\_\_



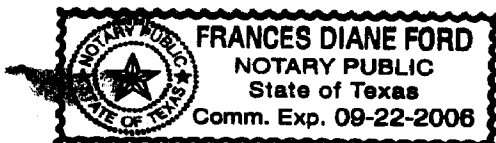
Date Assignment Signed: 01/05/04


Inventor's Typed Name: James K. YU

Date Application Signed: 01/05/04

State of Texas )  
County of Harris ) ss.: \_\_\_\_\_

Before me this 5<sup>th</sup> day of January 2004, personally appeared James K. YU 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: \_\_\_\_\_

SIGNED SEPARATELY

Date Assignment Signed: \_\_\_\_\_

Inventor's Signature (Seal)

Inventor's Typed Name: William J. WALKER

Date Application Signed: \_\_\_\_\_

State of \_\_\_\_\_ )  
County of \_\_\_\_\_ ) ss.: \_\_\_\_\_

Before me this \_\_\_\_\_ day of \_\_\_\_\_, personally appeared William J. WALKER 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))

Page 2 of 3

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## PATENT APPLICATION

ATTORNEY DOCKET NO. 200302583-2

## ASSIGNMENT OF PATENT APPLICATION (cont.)

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

SIGNED SEPARATELY

Date Assignment Signed: \_\_\_\_\_

Inventor's Signature (Seal) \_\_\_\_\_

Inventor's Typed Name: Paras. A. SHAH Date Application Signed: \_\_\_\_\_

State of \_\_\_\_\_ )  
County of \_\_\_\_\_ ) ss.:

Before me this \_\_\_\_\_ day of \_\_\_\_\_, personally appeared Paras. A. SHAH 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: \_\_\_\_\_

SIGNED SEPARATELY

Date Assignment Signed: \_\_\_\_\_

Inventor's Signature (Seal) \_\_\_\_\_

Inventor's Typed Name: James K. YU Date Application Signed: \_\_\_\_\_

State of \_\_\_\_\_ )  
County of \_\_\_\_\_ ) ss.:

Before me this \_\_\_\_\_ day of \_\_\_\_\_, personally appeared James K. YU 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: 5/30/04Inventor's Typed Name: William J. WALKER Date Application Signed: \_\_\_\_\_

State of \_\_\_\_\_ )  
County of \_\_\_\_\_ ) ss.:

Before me this \_\_\_\_\_ day of \_\_\_\_\_, personally appeared William J. WALKER 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))

Page 2 of 3

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PATENT APPLICATION

ATTORNEY DOCKET NO. 200302583-2

## ASSIGNMENT OF PATENT APPLICATION (cont.)

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

Kenneth G. Jansen Date Assignment Signed: 4/30/04  
Inventor's Signature (Seal)

Inventor's Typed Name: Kenneth JANSEN Date Application Signed \_\_\_\_\_

State of \_\_\_\_\_ )  
 ) ss.:  
County of \_\_\_\_\_ )

Before me this \_\_\_\_\_ day of \_\_\_\_\_, personally appeared Kenneth JANSEN 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: \_\_\_\_\_

SIGNED SEPARATELY

Date Assignment Signed: \_\_\_\_\_

Inventor's Signature (Seal)

Inventor's Typed Name: Vasile BALABANOS Date Application Signed \_\_\_\_\_

State of \_\_\_\_\_ )  
 ) ss.:  
County of \_\_\_\_\_ )

Before me this \_\_\_\_\_ day of \_\_\_\_\_, personally appeared Vasile BALABANOS 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: \_\_\_\_\_

SIGNED SEPARATELY

Date Assignment Signed: \_\_\_\_\_

Inventor's Signature (Seal)

Inventor's Typed Name: Andrew D. OLSEN Date Application Signed \_\_\_\_\_

State of \_\_\_\_\_ )  
 ) ss.:  
County of \_\_\_\_\_ )

Before me this \_\_\_\_\_ day of \_\_\_\_\_, personally appeared Andrew D. OLSEN 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 Next Page For Additional Inventor(s) Signature(s))

Page 3 of 3

Rev 10/03 (Assign2)

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PATENT APPLICATION

ATTORNEY DOCKET NO. 200302583-2

ASSIGNMENT OF PATENT APPLICATION (cont.)

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

SIGNED SEPARATELY

Inventor's Signature (Seal) \_\_\_\_\_ Date Assignment Signed: \_\_\_\_\_

Inventor's Typed Name: Kennath JANSEN Date Application Signed \_\_\_\_\_

State of \_\_\_\_\_ )  
County of \_\_\_\_\_ ) ss.:  
\_\_\_\_\_ )

Before me this \_\_\_\_\_ day of \_\_\_\_\_, personally appeared Kennath JANSEN 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.

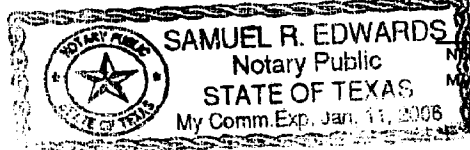
\_\_\_\_\_  
Notary Public  
My commission expires: \_\_\_\_\_

Bla \_\_\_\_\_ Date Assignment Signed: 4/22/04  
Inventor's Signature (Seal)

Inventor's Typed Name: Vasile BALABANOS Date Application Signed 4/22/04

State of \_\_\_\_\_ )  
County of \_\_\_\_\_ ) ss.:  
\_\_\_\_\_ )

Before me this 22 day of April, personally appeared Vasile BALABANOS 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.



[Signature] \_\_\_\_\_  
Notary Public  
My commission expires: 1/11/04

SIGNED SEPARATELY

Inventor's Signature (Seal) \_\_\_\_\_ Date Assignment Signed: \_\_\_\_\_

Inventor's Typed Name: Andrew D. OLSEN Date Application Signed \_\_\_\_\_

State of \_\_\_\_\_ )  
County of \_\_\_\_\_ ) ss.:  
\_\_\_\_\_ )

Before me this \_\_\_\_\_ day of \_\_\_\_\_, personally appeared Andrew D. OLSEN 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 Next Page For Additional Inventor(s) Signature(s))

Page 3 of 3



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 Fort Collins, Colorado 80527-2400

PATENT APPLICATION  
 ATTORNEY DOCKET NO. 200302583-2

### ASSIGNMENT OF PATENT APPLICATION (cont.)

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

SIGNED SEPARATELY

Inventor's Signature (Seal) \_\_\_\_\_ Date Assignment Signed: \_\_\_\_\_

Inventor's Typed Name: Kenneth JANSEN \_\_\_\_\_ Date Application Signed \_\_\_\_\_

State of \_\_\_\_\_ )  
 ) ss.:  
 County of \_\_\_\_\_ )

Before me this \_\_\_\_\_ day of \_\_\_\_\_, personally appeared Kenneth JANSEN 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: \_\_\_\_\_

SIGNED SEPARATELY

Inventor's Signature (Seal) \_\_\_\_\_ Date Assignment Signed: \_\_\_\_\_

Inventor's Typed Name: Vasile BALABANOS \_\_\_\_\_ Date Application Signed \_\_\_\_\_

State of \_\_\_\_\_ )  
 ) ss.:  
 County of \_\_\_\_\_ )

Before me this \_\_\_\_\_ day of \_\_\_\_\_, personally appeared Vasile BALABANOS 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: \_\_\_\_\_

Andy Olsen \_\_\_\_\_ Date Assignment Signed: 5/10/04  
 Inventor's Signature (Seal)

Inventor's Typed Name: Andrew D. OLSEN \_\_\_\_\_ Date Application Signed \_\_\_\_\_

State of \_\_\_\_\_ )  
 ) ss.:  
 County of \_\_\_\_\_ )

Before me this \_\_\_\_\_ day of \_\_\_\_\_, personally appeared Andrew D. OLSEN 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 Next Page For Additional Inventor(s) Signature(s))

Page 3 of 3

Rev 10/03 (Assign2)