

08-30-2005

FORM PTO-1595

1-31-92



103070507

SHEET

U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

Attorney Docket No. 200400264-1

8/23/05

1. Name of conveying party(ies):

Theodore F. Emerson  
Robert L. Noonan  
David F. Heinrich  
Don Dykes

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  No

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

3. Nature of Conveyance:

Assignment                      \_\_\_ Merger                      \_\_\_ Change of Name  
\_\_\_ Security Agreement              \_\_\_ Other

113243 U.S. PTO  
11/209897  
082305

Execution Date(s): August 23, 2005

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: 08/23/2005

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

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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.*

Michael G. Fletcher

Name of Person Signing

*MGF*

Signature

Aug 23, 2005

Date

Total number of pages including cover sheet, attachments, and document: 4L

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

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Director of the US Patent and Trademark Office

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Alexandria, VA 22313-1450

When recorded please return to:  
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P. O. Box 272400  
Fort Collins, Colorado 80527-2400

**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 APPARATUS FOR MANAGING CHANGES IN A VIRTUAL SCREEN BUFFER**

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.

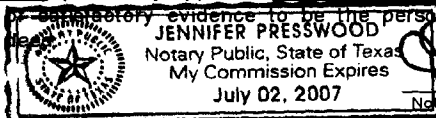
IN WITNESS WHEREOF, I/we hereunto set my/our hand(s) and seal(s):

[Signature] Date Assignment Signed: 8/23/2005  
Inventor's Signature (Seal)

Inventor's Typed Name: Theodore F. Emerson Date Application Signed: \_\_\_\_\_

State of Texas )  
County of Harris ) ss.:

Before me this 23 day of August, personally appeared Theodore F. Emerson 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

  
JENNIFER PRESSWOOD  
Notary Public, State of Texas  
My Commission Expires July 02, 2007  
My commission expires: 7-2-07

When recorded please return to:  
HEWLETT-PACKARD COMPANY  
Intellectual Property Administration  
P. O. Box 272400  
Fort Collins, Colorado 80527-2400

ASSIGNMENT OF PATENT APPLICATION (cont.)

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

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

Inventor's Typed Name: Robert L. Noonan Date Application Signed: \_\_\_\_\_

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

Before me this \_\_\_\_\_ day of \_\_\_\_\_, personally appeared Robert L. Noonan 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.

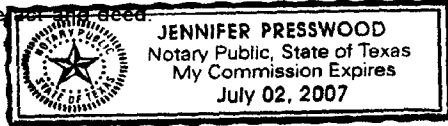
\_\_\_\_\_  
Notary Public  
My commission expires: \_\_\_\_\_

David F. Heinrich  
Date Assignment Signed: 8/23/05  
Inventor's Signature (Seal)

Inventor's Typed Name: David F. Heinrich Date Application Signed: \_\_\_\_\_

State of Texas )  
County of Harris ) ss.:

Before me this 23 day of August, personally appeared David F. Heinrich 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.



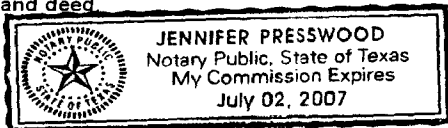
J. Presswood  
Notary Public  
My commission expires: 7-2-07

Don Dykes  
Date Assignment Signed: 23 Aug 2005  
Inventor's Signature (Seal)

Inventor's Typed Name: Don Dykes Date Application Signed: \_\_\_\_\_

State of Texas )  
County of Harris ) ss.:

Before me this 23 day of August, personally appeared Don Dykes 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.



J. Presswood  
Notary Public  
My commission expires: 7-2-07

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Intellectual Property Administrator  
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Fort Collins, Colorado 80527-2400

**PATENT APPLICATION**

**ATTORNEY DOCKET NO. 200400264-1**

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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):

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

Inventor's Typed Name: Theodore F. Emerson Date Application Signed: \_\_\_\_\_

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

Before me this \_\_\_\_ day of \_\_\_\_\_, personally appeared Theodore F. Emerson 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: \_\_\_\_\_

When recorded please return to:

HEWLETT-PACKARD COMPANY  
Intellectual Property Administration  
P. O. Box 277400  
Fort Collins, Colorado 80527-2400

PATENT APPLICATION

ATTORNEY DOCKET NO. 200400264-1

ASSIGNMENT OF PATENT APPLICATION (cont.)

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

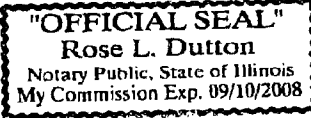
*[Signature]*  
Inventor's Signature (Seal) \_\_\_\_\_ Date Assignment Signed: 8/23/2005

Inventor's Typed Name: Robert L. Noonan Date Application Signed: \_\_\_\_\_

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

County of McHenry ) \_\_\_\_\_

Before me this 22 day of August, personally appeared Robert L. Noonan 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: 9-10-2008

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

Inventor's Typed Name: David F. Heinrich Date Application Signed: \_\_\_\_\_

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

County of \_\_\_\_\_ ) \_\_\_\_\_

Before me this \_\_\_\_\_ day of \_\_\_\_\_, personally appeared David F. Heinrich 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: Don Dykes Date Application Signed: \_\_\_\_\_

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

County of \_\_\_\_\_ ) \_\_\_\_\_

Before me this \_\_\_\_\_ day of \_\_\_\_\_, personally appeared Don Dykes 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 2