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To the Honorable Commissioner of

ed original documents or copy the

86-21-11
CIV

1. Name of conveying party(ies)
 Simon C. Steely, Jr.
 Edward J. McLellan
 Joel S. Emer

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

2. Name and address of receiving party(ies)
 Name: Digital Equipment Corporation
 Internal Address: _____

 Street Address: 111 Powdermill Road

 City: Maynard State: MA ZIP: 01754

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

3. Nature of conveyance:
 Assignment [] Merger
 Security Agreement [] Change of Name
 Other _____

Execution Date: 10/27/98; 10/29/98; 11/02/98 respectively

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: 10/27/98; 10/29/98; 11/02/98

A. Patent Application No.(s) _____ B. Patent No.(s) _____

Additional numbers attached? [] Yes [X] No

5. Name and address of party to whom correspondence concerning document should be mailed:
 Name: David J. Thibodeau, Jr.
 Internal Address: _____
Hamilton, Brook, Smith & Reynolds, P.C.

 Street Address: Two Militia Drive

 City: Lexington State: MA ZIP: 02421-4799

6. Total number of applications and patents involved: [1]

7. Total Fee (37 C.F.R. 3.41)..... \$ 40.00
 Enclosed with Filing Fee
 Authorized to charge any deficiencies or credit any overpayment to deposit account
 Authorized to be charged to deposit account

8. Deposit account number:
08-0380
 (Attach duplicate copy of this page if paying by deposit account)

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 copies is a true copy of the original document.

David J. Thibodeau, Jr. 12 November 1998
 Name of Person Signing Signature Date

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

40.00 OF
09191869
0000020
PATENT
FC:581

ASSIGNMENT

WHEREAS, Simon C. Steely, Jr., a citizen of the United States residing at 8 Anna Louise Drive, Hudson, New Hampshire 03051, Edward J. McLellan, a citizen of the United States residing at 5 Washington Path, Holliston, Massachusetts 01746, and Joel S. Emer, a citizen of the United States residing at 20 Blackhorse Drive, Acton, Massachusetts 01720, have made certain inventions or discoveries (or both) set forth in an Application for Letters Patent of the United States of America entitled STORED PREDICTOR WITH INDEX COUNTER TO SUPPORT MULTIPLE PREDICTIONS IN UPDATE SHADOW, the specification of which:

was executed by us on the date(s) indicated below;

was filed on
as Application Serial No.

was patented under U.S. Patent No.
on ;

WHEREAS, Digital Equipment Corporation, a corporation of the Commonwealth of Massachusetts, whose address is 111 Powdermill Road, Maynard, Massachusetts 01754, and who, together with its successors and assigns is hereinafter called "Assignee", is desirous of acquiring the entire right, title and interest together with the benefits and privileges hereinafter recited;

NOW, THEREFORE, for valuable consideration furnished by Assignee to us/me, receipt and sufficiency of which we/I hereby acknowledged, we/I hereby, without reservation;

1. Assign, transfer and convey to Assignee the entire right, title and interest together with the benefits and privileges in and to said inventions and discoveries, said Application for Letters Patent or similar forms of protection of the United States of America, and all other applications for Letters Patent on said inventions and discoveries in whatsoever countries, including all divisional, renewal, substitute, continuation and convention applications based in whole or in part upon said inventions or discoveries, or upon said application, and any and all Letters Patent, reissues and extensions of Letters Patent or similar forms of protection granted for said inventions and discoveries or upon said applications, and every priority right that is or may be predicated upon or arise from said inventions, said discoveries, said applications and said Letters Patent;

2. Authorize Assignee to file patent applications in any or all countries or groups of countries on any or all of said inventions and discoveries in our name or in the name of Assignee or otherwise as Assignee may deem advisable, under the International Convention or any other relevant convention or treaty or otherwise;

3. Authorize and request the Commissioner of Patents and Trademarks of the United States of America and the empowered officials of all other governments to issue or transfer all said Letters Patent to Assignee, as assignee of the entire right, title and interest therein, or otherwise as Assignee may direct;

4. Warrant that we/I have not knowingly conveyed to others any rights in said inventions, discoveries, applications or patents or any license to use the same or to make, use or sell anything embodying or utilizing any of said inventions or discoveries; and that we/I have good right to assign the same to Assignee without encumbrance;

5. Bind our/my heirs, legal representatives and assigns, as well as ourselves/myself, to do, upon Assignee's request and at Assignee's expense, but without additional consideration to us/me or them, all acts reasonable serving to assure that said inventions and discoveries, said patent applications and said Letters Patent shall be held and enjoyed by Assignee as fully and entirely as the same could have been held and enjoyed by us/my, our/my heirs, legal representatives and assigns if this assignment had not been made; and particularly to execute and deliver to Assignee all lawful application documents including petitions, specifications, and oaths, and all assignments, disclaimers, and lawful affidavits in form and substance as may be requested by Assignee; to communicate to Assignee all facts known to us/me relating to said inventions and discoveries or the history thereof; and to furnish Assignee with any and all documents, photographs, models, samples and other physical exhibits in our/my control or in the control of our/my heirs, legal representatives or assigns which may be useful for establishing any facts of our/my conceptions, disclosures, and reduction to practice of said inventions or discoveries.

IN WITNESS WHEREOF: _____

DATE I SIGNED INVENTOR'S DECLARATION: Oct 27, 1998

Today's Date: Oct 27, 1998

Simon C. Steely, Jr.
Simon C. Steely, Jr.

STATE OF: Massachusetts

COUNTY OF: Middlesex

On this 27th day of October, 1998, before me personally appeared Simon C. Steely, Jr. known to me to be the person described in and who executed the foregoing instrument, and who acknowledged that he/she executed the same as his/her free act and deed.

Cheri J. Vaillancourt
Notary Public
My Commission Expires: 8-12-99

IN WITNESS WHEREOF: _____

DATE I SIGNED INVENTOR'S DECLARATION: _____

Today's Date: _____

Edward J. McLellan

STATE OF: _____

COUNTY OF: _____

On this _____ day of _____, 1998, before me personally appeared Edward J. McLellan known to me to be the person described in and who executed the foregoing instrument, and who acknowledged that he/she executed the same as his/her free act and deed.

Notary Public
My Commission Expires: _____

IN WITNESS WHEREOF: _____

DATE I SIGNED INVENTOR'S DECLARATION: _____

Today's
Date: _____

Joel S. Emer

STATE OF: _____

COUNTY OF: _____

On this _____ day of _____, 1998, before me personally appeared Joel S. Emer known to me to be the person described in and who executed the foregoing instrument, and who acknowledged that he/she executed the same as his/her free act and deed.

Notary Public

My Commission Expires: _____

ASSIGNMENT

WHEREAS, Simon C. Steely, Jr., a citizen of the United States residing at 8 Anna Louise Drive, Hudson, New Hampshire 03051, Edward J. McLellan, a citizen of the United States residing at 5 Washington Path, Holliston, Massachusetts 01746, and Joel S. Emer, a citizen of the United States residing at 20 Blackhorse Drive, Acton, Massachusetts 01720, have made certain inventions or discoveries (or both) set forth in an Application for Letters Patent of the United States of America entitled STORED PREDICTOR WITH INDEX COUNTER TO SUPPORT MULTIPLE PREDICTIONS IN UPDATE SHADOW, the specification of which:

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NOW, THEREFORE, for valuable consideration furnished by Assignee to us/me, receipt and sufficiency of which we/I hereby acknowledged, we/I hereby, without reservation;

1. Assign, transfer and convey to Assignee the entire right, title and interest together with the benefits and privileges in and to said inventions and discoveries, said Application for Letters Patent or similar forms of protection of the United States of America, and all other applications for Letters Patent on said inventions and discoveries in whatsoever countries, including all divisional, renewal, substitute, continuation and convention applications based in whole or in part upon said inventions or discoveries, or upon said application, and any and all Letters Patent, reissues and extensions of Letters Patent or similar forms of protection granted for said inventions and discoveries or upon said applications, and every priority right that is or may be predicated upon or arise from said inventions, said discoveries, said applications and said Letters Patent;

2. Authorize Assignee to file patent applications in any or all countries or groups of countries on any or all of said inventions and discoveries in our name or in the name of Assignee or otherwise as Assignee may deem advisable, under the International Convention or any other relevant convention or treaty or otherwise;

3. Authorize and request the Commissioner of Patents and Trademarks of the United States of America and the empowered officials of all other governments to issue or transfer all said Letters Patent to Assignee, as assignee of the entire right, title and interest therein, or otherwise as Assignee may direct;

4. Warrant that we/I have not knowingly conveyed to others any rights in said inventions, discoveries, applications or patents or any license to use the same or to make, use or sell anything embodying or utilizing any of said inventions or discoveries; and that we/I have good right to assign the same to Assignee without encumbrance;

5. Bind our/my heirs, legal representatives and assigns, as well as ourselves/myself, to do, upon Assignee's request and at Assignee's expense, but without additional consideration to us/me or them, all acts reasonable serving to assure that said inventions and discoveries, said patent applications and said Letters Patent shall be held and enjoyed by Assignee as fully and entirely as the same could have been held and enjoyed by us/my, our/my heirs, legal representatives and assigns if this assignment had not been made; and particularly to execute and deliver to Assignee all lawful application documents including petitions, specifications, and oaths, and all assignments, disclaimers, and lawful affidavits in form and substance as may be requested by Assignee; to communicate to Assignee all facts known to us/me relating to said inventions and discoveries or the history thereof; and to furnish Assignee with any and all documents, photographs, models, samples and other physical exhibits in our/my control or in the control of our/my heirs, legal representatives or assigns which may be useful for establishing any facts of our/my conceptions, disclosures, and reduction to practice of said inventions or discoveries.

IN WITNESS WHEREOF: _____

DATE I SIGNED INVENTOR'S DECLARATION: _____

Today's
Date: _____

Simon C. Steely, Jr.

STATE OF: _____

COUNTY OF: _____

On this _____ day of _____, 1998, before me personally appeared Simon C. Steely, Jr. known to me to be the person described in and who executed the foregoing instrument, and who acknowledged that he/she executed the same as his/her free act and deed.

Notary Public
My Commission Expires: _____

IN WITNESS WHEREOF: Edward J. McLellan

DATE I SIGNED INVENTOR'S DECLARATION: Oct 29, 98

Today's
Date: Oct 29, 1998

Ed J. McLellan
Edward J. McLellan

STATE OF: Massachusetts

COUNTY OF: Essex

On this 29th day of October, 1998, before me personally appeared Edward J. McLellan known to me to be the person described in and who executed the foregoing instrument, and who acknowledged that he/she executed the same as his/her free act and deed.

Robyn E. Hatch
Notary Public Robyn E. Hatch
My Commission Expires: 10/04/2002

IN WITNESS WHEREOF: _____

DATE I SIGNED INVENTOR'S DECLARATION: _____

Today's
Date: _____

Joel S. Emer

STATE OF: _____

COUNTY OF: _____

On this _____ day of _____, 1998, before me personally appeared Joel S. Emer known to me to be the person described in and who executed the foregoing instrument, and who acknowledged that he/she executed the same as his/her free act and deed.

Notary Public
My Commission Expires: _____

ASSIGNMENT

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2. Authorize Assignee to file patent applications in any or all countries or groups of countries on any or all of said inventions and discoveries in our name or in the name of Assignee or otherwise as Assignee may deem advisable, under the International Convention or any other relevant convention or treaty or otherwise;

3. Authorize and request the Commissioner of Patents and Trademarks of the United States of America and the empowered officials of all other governments to issue or transfer all said Letters Patent to Assignee, as assignee of the entire right, title and interest therein, or otherwise as Assignee may direct;

4. Warrant that we/I have not knowingly conveyed to others any rights in said inventions, discoveries, applications or patents or any license to use the same or to make, use or sell anything embodying or utilizing any of said inventions or discoveries; and that we/I have good right to assign the same to Assignee without encumbrance;

5. Bind our/my heirs, legal representatives and assigns, as well as ourselves/myself, to do, upon Assignee's request and at Assignee's expense, but without additional consideration to us/me or them, all acts reasonable serving to assure that said inventions and discoveries, said patent applications and said Letters Patent shall be held and enjoyed by Assignee as fully and entirely as the same could have been held and enjoyed by us/my, our/my heirs, legal representatives and assigns if this assignment had not been made; and particularly to execute and deliver to Assignee all lawful application documents including petitions, specifications, and oaths, and all assignments, disclaimers, and lawful affidavits in form and substance as may be requested by Assignee; to communicate to Assignee all facts known to us/me relating to said inventions and discoveries or the history thereof; and to furnish Assignee with any and all documents, photographs, models, samples and other physical exhibits in our/my control or in the control of our/my heirs, legal representatives or assigns which may be useful for establishing any facts of our/my conceptions, disclosures, and reduction to practice of said inventions or discoveries.

IN WITNESS WHEREOF: _____

DATE I SIGNED INVENTOR'S DECLARATION: _____

Today's
Date: _____

Simon C. Steely, Jr.

STATE OF: _____

COUNTY OF: _____

On this _____ day of _____, 1998, before me personally appeared Simon C. Steely, Jr. known to me to be the person described in and who executed the foregoing instrument, and who acknowledged that he/she executed the same as his/her free act and deed.

Notary Public
My Commission Expires: _____

IN WITNESS WHEREOF: _____

DATE I SIGNED INVENTOR'S DECLARATION: _____

Today's
Date: _____

Edward J. McLellan

STATE OF: _____

COUNTY OF: _____

On this _____ day of _____, 1998, before me personally appeared Edward J. McLellan known to me to be the person described in and who executed the foregoing instrument, and who acknowledged that he/she executed the same as his/her free act and deed.

Notary Public
My Commission Expires: _____

IN WITNESS WHEREOF: _____

DATE I SIGNED INVENTOR'S DECLARATION: 11/2/98

Today's Date: 11/2/98

Joel S. Emer
Joel S. Emer

STATE OF: MASSACHUSETTS

COUNTY OF: Worcester

On this 2nd day of November, 1998, before me personally appeared Joel S. Emer known to me to be the person described in and who executed the foregoing instrument, and who acknowledged that he/she executed the same as his/her free act and deed.

Shatta A. Sweet J.
Notary Public
My Commission Expires: July 29, 1999