

Tab settings

2/14/98



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To the Honorable Commissioner of P.

... and attached original documents or copy thereof.

1. Name of conveying party(ies):

- A. George Z. Chrysos
- B. Joel S. Emer
- C. Bruce E. Edwards
- D. John H. Edmondson

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

3. Nature of conveyance:

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

Execution Date: A. B. C. - 07/17/98  
D. - 07/16/98

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)

09/103,984

B. Patent No.(s)

Additional numbers attached?  Yes  No

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

Name: Mary Lou Wakimura, Esq.

Internal Address: Hamilton, Brook, Smith & Reynolds, P.C.

Street Address: Two Militia Drive

City: Lexington State: MA ZIP: 02173

6. Total number of applications and patents involved:

7. Total fee (37 CFR 3.41).....\$ 40.00

Enclosed

Authorized to be charged to deposit account

8. Deposit account number:

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

08/21/1998 BNGUYEN 00000091 09103984

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40.00 00

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.*

Mary Lou Wakimura

Name of Person Signing

Mary Lou Wakimura  
Signature

8/11/98  
Date

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

ASSIGNMENT

WHEREAS, George Z. Chrysoe, a citizen of the United States residing at 51-5 Briarwood Lane, Marlboro, Massachusetts 01752, Joel S. Emer, a citizen of the United States residing at 20 Blackhorse Drive, Acton, Massachusetts, 01720, Bruce E. Edwards, a citizen of the United States residing at 19 Broad Street, Belmont, Massachusetts 02178, and John H. Edmondson, a citizen of the United States residing at 202 Waverley Street, Arlington, Massachusetts 02174, have made certain inventions or discoveries (or both) set forth in an Application for Letters Patent of the United States of America entitled METHOD AND APPARATUS FOR PREDICTING MEMORY DEPENDENCE USING STORE SETS, the specification of which:

- was executed by us on the date(s) indicated below;
- was filed on June 24, 1998  
as Application Serial No.09/103,984
- 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: 7/17/98

Today's Date: 7/17/98

George Z. Chryso  
George Z. Chryso

STATE OF: MASSACHUSETTS

COUNTY OF: Worcester

On this 17 day of July, 1998, before me personally appeared George Z. Chryso known to me to be the person described in and who executed the foregoing instrument, and who acknowledged that he executed the same as his free act and deed.

Shalter D. Scott Jr.  
Notary Public  
My Commission Expires: July 29, 1999

IN WITNESS WHEREOF: \_\_\_\_\_

DATE I SIGNED INVENTOR'S DECLARATION: July 17, 1998

Today's Date: July 17, 1998

Joel S. Emer  
Joel S. Emer

STATE OF: MASSACHUSETTS

COUNTY OF: Worcester

On this 17 day of July, 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 executed the same as his free act and deed.

Notary Public Shalter D. Scott Jr.  
My Commission Expires: July 29, 1999

IN WITNESS WHEREOF: \_\_\_\_\_

DATE I SIGNED INVENTOR'S DECLARATION: 7/17/98

Today's  
Date: 7/17/98

Bruce E. Edwards  
Bruce E. Edwards

STATE OF: MASSACHUSETTS

COUNTY OF: Worcester

On this 17 day of July, 1998, before me personally appeared Bruce E. Edwards known to me to be the person described in and who executed the foregoing instrument, and who acknowledged that he executed the same as his free act and deed.

Shatta A. Bennett Jr.  
Notary Public  
My Commission Expires: July 29, 1999

IN WITNESS WHEREOF: \_\_\_\_\_

DATE I SIGNED INVENTOR'S DECLARATION: \_\_\_\_\_

Today's  
Date: \_\_\_\_\_

John H. Edmondson

STATE OF: \_\_\_\_\_

COUNTY OF: \_\_\_\_\_

On this \_\_\_\_\_ day of \_\_\_\_\_, 1998, before me personally appeared John H. Edmondson known to me to be the person described in and who executed the foregoing instrument, and who acknowledged that he executed the same as his free act and deed.

\_\_\_\_\_  
Notary Public  
My Commission Expires: \_\_\_\_\_

ASSIGNMENT

WHEREAS, George Z. Chrysos, a citizen of the United States residing at 51-5 Briarwood Lane, Marlboro, Massachusetts 01752, Joel S. Emer, a citizen of the United States residing at 20 Blackhorse Drive, Acton, Massachusetts, 01720, Bruce E. Edwards, a citizen of the United States residing at 19 Broad Street, Belmont, Massachusetts 02178, and John H. Edmondson, a citizen of the United States residing at 202 Waverley Street, Arlington, Massachusetts 02174, have made certain inventions or discoveries (or both) set forth in an Application for Letters Patent of the United States of America entitled METHOD AND APPARATUS FOR PREDICTING MEMORY DEPENDENCE USING STORE SETS, the specification of which:

- [ ] was executed by us on the date(s) indicated below;
- [x ] was filed on June 24, 1998  
as Application Serial No.09/103,984
- [ ] 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: \_\_\_\_\_

Today's  
Date: \_\_\_\_\_

George Z. Chrysos

STATE OF: \_\_\_\_\_

COUNTY OF: \_\_\_\_\_

On this \_\_\_\_\_ day of \_\_\_\_\_, 1998, before me personally appeared George Z. Chrysos known to me to be the person described in and who executed the foregoing instrument, and who acknowledged that he executed the same as his 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 executed the same as his free act and deed.

\_\_\_\_\_  
Notary Public  
My Commission Expires: \_\_\_\_\_



IN WITNESS WHEREOF: \_\_\_\_\_

DATE I SIGNED INVENTOR'S DECLARATION: \_\_\_\_\_

Today's

Date: \_\_\_\_\_

Bruce E. Edwards

STATE OF: \_\_\_\_\_

COUNTY OF: \_\_\_\_\_

On this \_\_\_\_\_ day of \_\_\_\_\_, 1998, before me personally appeared Bruce E. Edwards known to me to be the person described in and who executed the foregoing instrument, and who acknowledged that he executed the same as his free act and deed.

Notary Public

My Commission Expires: \_\_\_\_\_

IN WITNESS WHEREOF: \_\_\_\_\_

DATE I SIGNED INVENTOR'S DECLARATION: \_\_\_\_\_

Today's

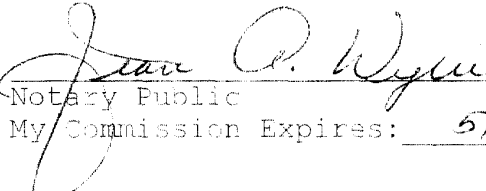
Date: July 16, 1998

  
John H. Edmondson

STATE OF: MA

COUNTY OF: Norfolk

On this 16<sup>th</sup> day of July, 1998, before me personally appeared John H. Edmondson known to me to be the person described in and who executed the foregoing instrument, and who acknowledged that he executed the same as his free act and deed.

  
Notary Public

My Commission Expires: 5/10/02

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