

MRD  
1-30-98

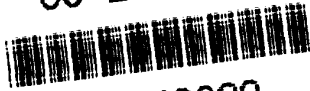
06-29-1998

RECEIVED  
JAN 30 1998  
RECEIPT ACTING DIV.

FORM PTO-1596  
1-31-92

FORM COVER SHEET U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

DOCKET NO



100749022

...S ONLY

To the Associate Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereto:

RE  
MRD 6-22-98

1. Name of conveying party(ies):

Edward K. Lee and Chandramohan A. Thekkath

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/Country: MA ZIP: 01754-1499

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

3. Nature of conveyance:

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

Execution Date: January 26, 1998

4. Application number(s) or patent number(s):

09/016,320

If the document is being filed together with a new application, the execution date of the application is: January 30, 1998

A. Patent Application No(s).  
Filed:

B. Patent No(s).

Additional numbers attached?  Yes  No

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

Name: Digital Equipment Corporation

Internal Address: Patent Law Group

Street Address: 111 Powdermill Road

City: Maynard State: MA ZIP: 01754-1499

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41) 40.00

Enclosed

Authorized to be charged to deposit account

8. Deposit account number: 10-0447

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.

Alfred A. Stadnicki, Registration No. 30,226  
Name and Registration No. of Person Signing

Signature

Date

Total number of pages including cover sheet: 5

CMB No. 0851-0011 (exp. 4/94)

03/02/1998 JEM007Z 00000123 DAN:100447 DIGITAL CO  
Sale Ref: 00000123 DAN: 100447 DIGITAL CORP.  
01 FC:581 40.00 CH

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: EDWARD K. LEE, ET AL.

Serial No: 09/016,320                      Group Art Unit: >

Filed: JANUARY 30, 1998                      Examiner: >

Title: NON-INTRUSIVE CRASH CONSISTENT COPYING IN DISTRIBUTED  
SYSTEMS WITHOUT CLIENT COOPERATION

\* \* \*

TRANSMITTAL LETTER

Assistant Commissioner for Patents  
Washington, D.C. 20231

**ATTN: ASSIGNMENT DIVISION  
BOX ASSIGNMENTS**

Sir:

Transmitted herewith for the above-identified application and in response to the NOTICE OF NON-RECORDATION OF DOCUMENT is:

- 1) Document ID No. 100647918, NOTICE OF NON-RECORDATION OF DOCUMENT, with the assigned application number inserted on the Recordation Cover Sheet. This assignment was filed with the application at the time of filing and apparently was inadvertently separated from the application by personnel at the Patent Office.

The \$40 recordal fee has already been charged to our Deposit Account and applicant does not believe any additional fees are due. If any additional fees are required, the Assistant Commissioner for Patents is hereby authorized to charge the fees that may be required by this paper to Deposit Account No. 04-1079.

All future correspondence should be addressed to:

Patent Law Group  
Digital Equipment Corporation  
111 Powdermill Road, MSO2-3/G3  
Maynard, Massachusetts 01754-1499

Respectfully submitted,

DIGITAL EQUIPMENT CORPORATION

By:



Ronald C. Hudgens  
Reg. No.: 24,288  
Attorney for Assignee

Date: June 16, 1998

Patent Law Group  
Digital Equipment Corporation  
111 Powdermill Road, MSO2-3/G3  
Maynard, Massachusetts 01754-1499  
(978) 493-5493

jdl

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Docket No.03139-00055

Client No. 25-732

## **ASSIGNMENT**

**WHEREAS**, I/we (as applicable) Edward K. LEE and, Chandramohan A. THEKKATH, an employee/employees of DIGITAL EQUIPMENT CORPORATION (hereinafter referred to as **ASSIGNEE**), a corporation organized and existing under the laws of the State/Commonwealth of Massachusetts and having an address of 111 Powdermill Road, Maynard, MA 01754-1499, have made a certain new and useful invention as set forth in an application for United States Letters Patent, entitled "NON-INTRUSIVE CRASH CONSISTENT COPYING IN DISTRIBUTED STORAGE SYSTEMS WITHOUT CLIENT COOPERATION", for which an application for United States Letters Patent [X] is filed herewith or [ ] was filed on \_\_\_\_\_ as Application Serial No. \_\_\_\_\_;

**AND WHEREAS**, I/we hereby acknowledge my/our obligation to transfer the entire right, title and interest to said invention and in and to any and all Letters Patent of the United States and foreign countries which may be obtained therefore to **ASSIGNEE**;

**NOW, THEREFORE**, for good and valuable consideration, the receipt for and sufficiency of which is hereby acknowledged, I/we do hereby sell, assign, transfer and set over unto said **ASSIGNEE**, its legal representatives, successors, and assigns, the entire right, title and interest in and to said invention as set forth in the above-mentioned application, including any continuations, continuations-in-part, divisions, reissues, re-examinations or extensions thereof, and in and to any and all patents of the United States and foreign countries which may be issued for said invention including rights to priority under the International Convention of Paris (1883), as amended;

**UPON SAID CONSIDERATIONS**, I/we hereby acknowledge and agree that I/we have not and will not execute any writing or do any act whatsoever conflicting with these presents, and that I/we will, at any time upon request, without further or additional consideration but at the expense of said assignee, execute such additional assignments and other writings, for example statements and other affidavits, and do such additional acts, for example giving testimony, as said assignee may deem necessary or desirable to perfect the **ASSIGNEE**'s enjoyment of rights granted in said invention, and render all necessary assistance in making application for and obtaining original, divisional, continuations, continuations-in-part, reexamined, reissued, or extended Letters Patent of the United States or of any and all foreign countries on said invention, and in any proceedings or transactions involving such applications or patents, including those relating to the enforcement of any rights or choses in action accruing as a result of said applications or patents, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of the successors, assigns and legal representatives of me/us and **ASSIGNEE**;

Serial No. \_\_\_\_\_  
Docket No. 03139-00055  
Client No. 25-732

AND I/we request the Commissioner of Patents and Trademarks to issue any Letters Patent of the United States which may be issued for said invention to said ASSIGNEE, its legal representatives, successors or assigns, as the sole owner of the entire right, title and interest in and to said patent and the invention covered thereby.

Date: \_\_\_\_\_ Name: Edward K. Lee  
Typed: Edward K. LEE

State/Commonwealth of \_\_\_\_\_  
County of \_\_\_\_\_

~~Then personally appeared the above-named Edward K. LEE, of 707 Continental Circle, #428, Palo Alto, California 94303 this \_\_\_\_\_ day of \_\_\_\_\_, 199\_, to me personally known and known to me to be the person described in and who executed the foregoing assignment and acknowledged the same to be his or her own free act and deed, before me.~~

*(See attached)*

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

Date: \_\_\_\_\_ Name: Chandramohan A. THEKKATH  
Typed: Chandramohan A. THEKKATH

State/Commonwealth of \_\_\_\_\_  
County of \_\_\_\_\_

~~Then personally appeared the above-named Chandramohan A. THEKKATH of 919 Clara Drive, Palo Alto, California 94303, this \_\_\_\_\_ day of \_\_\_\_\_, 199\_, to me personally known and known to me to be the person described in and who executed the foregoing assignment and acknowledged the same to be his or her own free act and deed, before me.~~

*(See attached)*

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

This notarial act refers to the Assignment (Docket No. 03139-00055, Client No. 25-732) signed by Chandramohan A. Thekkath on 1/26/98.

State of California

County of Santa Clara

On 1/26/98 before me, James H. Mason, Notary Public, personally appeared, CHANDRAMOHAN A. THEKKATH personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/~~she/they~~ executed the same in his/~~her/their~~ authorized capacity(ies), and that by his/~~her/their~~ signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

Witness my hand and official seal.

Signature James H. Mason



This notarial act refers to the Assignment (Docket No. 03139-00055, Client No. 25-732) signed by Edward K. Lee on 1/26/98.

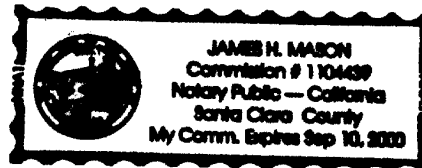
State of California

County of Santa Clara

On 1/26/98 before me, James H. Mason, Notary Public, personally appeared, EDWARD K. LEE personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/~~she/they~~ executed the same in his/~~her/their~~ authorized capacity(ies), and that by his/~~her/their~~ signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

Witness my hand and official seal.

Signature James H. Mason





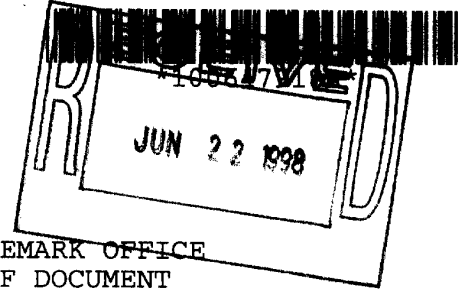
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**UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office**

ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

APRIL 22, 1998

PTAS

DIGITAL EQUIPMENT CORPORATION  
ALFRED A. STADNICKI  
PATENT LAW GROUP  
111 POWDERMILL ROAD  
MAYNARD, MA 01754-1499



UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF NON-RECORDATION OF DOCUMENT

DOCUMENT ID NO.: 100647918

THE ENCLOSED DOCUMENT HAS BEEN EXAMINED AND FOUND NON-RECORDABLE BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. THE REASON(S) FOR NON-RECORDATION ARE STATED BELOW. DOCUMENTS BEING RESUBMITTED FOR RECORDATION MUST BE ACCOMPANIED BY A NEW COVER SHEET REFLECTING THE CORRECT INFORMATION TO BE RECORDED AND THE DOCUMENT ID NUMBER REFERENCED ABOVE.

THE ORIGINAL DATE OF FILING OF THIS ASSIGNMENT DOCUMENT WILL BE MAINTAINED IF RESUBMITTED WITH THE APPROPRIATE CORRECTION(S) WITHIN 30 DAYS FROM THE DATE OF THIS NOTICE AS OUTLINED UNDER 37 CFR 3.51. THE RESUBMITTED DOCUMENT MUST INCLUDE A STAMP WITH THE OFFICIAL DATE OF RECEIPT UNDER 37 CFR 3. APPLICANTS MAY USE THE CERTIFIED PROCEDURES UNDER 37 CFR 1.8 OR 1.10 FOR RESUBMISSION OF THE RETURNED PAPERS, IF THEY DESIRE TO HAVE THE BENEFIT OF THE DATE OF DEPOSIT IN THE UNITED STATES POSTAL SERVICE.

SEND DOCUMENTS TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, NORTH TOWER BUILDING, 2800 CRYSTAL DRIVE, WASHINGTON, D.C. 20231. IF YOU HAVE ANY QUESTIONS REGARDING THIS NOTICE, YOU MAY CONTACT THE INDIVIDUAL WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723.

1. THE COVER SHEET SUBMITTED FOR RECORDING DOES NOT ADEQUATELY IDENTIFY THE PROPERTY NUMBER(S). THE APPLICATION NUMBER AND SERIES CODE OR THE SERIAL NUMBER AND FILING DATE IS REQUIRED.

PEARLENE FOSTER, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

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LAW DEPARTMENT/PSLG

APR 30 1998

RECORDED: 01/30/1998

PATENT  
REEL: 9262 FRAME: 0746