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RECORDATION FORM SHEET

09-28-1998

FORM PTO-1595
(Rev. 6-93)
OME No. 0651-0011 (exp. 4/94)



U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office
1998 SEP 21 PM 12:02

100839451

To the Commissioner of Patents

Please record the attached original documents or copy thereof.

83-12-3

1. Name of conveying party(ies):
Tong-Bi Pei; Kohei Abe; Robert E. Thomas

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

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other Corrective Assignment/Recordation
(to add joint assignee as additional receiving party)

Execution Date: October 7, 21 and 22, 1997

2. Name and address of receiving party(ies)

Name: Digital Equipment Corporation

Internal Address:

Street Address: 111 Powdermill Road

Maynard, MA 01754

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

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)

1. 08/972,663 18-Nov-1997

B. Patent No.(s)

Additional numbers attached? Yes No

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

Name: Therese A. Hendricks
Address: WOLF, GREENFIELD & SACKS, P.C.
Federal Reserve Plaza
600 Atlantic Avenue
Boston, MA 02210

6. Total number of applications involved: **[1]**

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

Enclosed

Authorized to be charged to deposit account

The Commissioner is authorized to charge:

8. Deposit Account No: 23/2825

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.

Paul D. Sorkin

Paul D. Sorkin

Sept 16, 1998

Name of Person Signing

Signature

Date

Total number of pages including cover sheet, attachments, and documents **[11]**

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

Box Assignment, ,
Washington, D.C. 20231

09/23/1998 JMW/KIM 0000155 0652263 40.00

PT:561

PATENT

ATTACHMENT

Serial No. 08/972,663

C0441/7911

Additional name & address of receiving party:

Kabushiki Kaisya Toshiba
72 Horikawa-cho, Saiwai-ku,
Kawaski-shi, JAPAN

post office address: c/o Semiconductor Intellectual Property &
Licensing Department
Kabushiki Kaisya Toshiba
580-1, Korikawa-Cho, Saiwai-ku
Kawasaki-shi, 210, JAPAN

MPED
11-18-97

581-48-00

COPY

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08/972683
P.T.O.

01-21-1998

HEET
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100609048

To the Assistant Commissioner
documents or copy thereof.

and the attached original

1. Name of conveying party(ies):
Tong-Bi Pei, Kohei Abe and Robert E. Thomas

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

3. Nature of Conveyance:
Assignment Merger
Security Agreement Other

Execution Dates: OCTOBER 7, 21 AND 22, 1997

2. Name and address of receiving party(ies):
Name: DIGITAL EQUIPMENT CORPORATION
Internal Address: MSO2-3/G3
Street Address: 111 POWDERMILL ROAD
City: MAYNARD, State: MA Zip: 01754
Additional name(s) and address(es) attached? Yes No

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: October 7, 21 and 22, 1997.

A. Patent Application No.(s) | 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
MSO2-3/G3
Street Address: 111 Powdermill Road
City: Maynard, State: MA Zip: 01754-1499

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

7. Total fee (37CFR 3.41): \$40.00
 Enclosed
 Authorized to be charged to deposit account

8. Deposit account number: 04-1079

DO NOT USE THIS SPACE

01/16/1998 LTPS...
04 FC...581

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.

Cathy L. Peterson
Name of Person Signing

Cathy L. Peterson
Signature

November 17, 1997
Date

Total number of pages comprising cover sheet: [1]

ASSIGNMENT

WHEREAS, Robert E. Thomas has made certain inventions or discoveries (or both) set forth in an Application for Letters Patent of the United States of America entitled Non-Zero Minimum Cell Rate for Available Bit Rate ATM, the specification of which:

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

_____ was filed on _____ as Application Serial No. _____;

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

WHEREAS, jointly, Digital Equipment Corporation, a corporation of the Commonwealth of Massachusetts, whose address is 111 Powdermill Road, Maynard, Massachusetts 01754, U.S.A., and its successors and assigns, and KABUSHIKI KAISYA TOSHIBA, a Japanese corporation, whose address is 72 Horikawa-cho, Saiwai-ku, Kawasaki-shi, Japan; and whose post office address is c/o Semiconductor Intellectual Property & Licensing Department, KABUSHIKI KAISYA TOSHIBA, 580-1, Korikawa-Cho, Saiwai-ku, Kawasaki-shi, 210, Japan, and its successors and assigns, the two corporations 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 me, receipt and sufficiency of which I hereby acknowledge, 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 my 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 Assistant Commissioner for Patents 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 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 I have good right to assign the same to Assignee without encumbrance;

5. Bind my heirs, legal representatives and assigns, as well as myself, to do, upon Assignee's request and at Assignee's expense, but without additional consideration to 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 me, 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 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 my control or in the control of my heirs, legal representatives or assigns which may be useful for establishing any facts of my conceptions, disclosures, and reduction to practice of said inventions or discoveries.

IN WITNESS WHEREOF:

DATE I SIGNED INVENTOR'S DECLARATION: _____

Today's Date: 10 - 21 - 1997

Robert E. Thomas
(Robert E. Thomas)

State of California, County of:
SANTA CLARA

On October 21, 1997 before me,
Melvyn J. ARSENAULT, personally appeared,
Robert E. Thomas, personally known to
me (or proved to me on the basis of satisfactory evidence)
to be the person whose name is subscribed to the within
instrument and acknowledged to me that he executed the same
in his authorized capacity, and that by his signature on the
instrument the person, or the entity upon behalf of which
the person acted, executed the instrument.

Witness my hand and official seal:

Signature: Melvyn J. Arsenault

Name: MELVYN J. ARSENAULT

My Commission Expires: 4/21/2000



ASSIGNMENT

WHEREAS, Tong-Bi Pei, has made certain inventions or discoveries (or both) set forth in an Application for Letters Patent of the United States of America entitled NON-ZERO MINIMUM CELL RATE FOR AVAILABLE BIT RATE ATM SERVICE, the specification of which:

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

_____ was filed on _____ as Application Serial No. _____;

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

WHEREAS, jointly, Digital Equipment Corporation, a corporation of the Commonwealth of Massachusetts, whose address is 111 Powdermill Road, Maynard, Massachusetts 01754, U.S.A., and its successors and assigns, and KABUSHIKI KAISYA TOSHIBA, a Japanese corporation, whose address is 72 Horikawa-cho, Saiwai-ku, Kawasaki-shi, Japan; and whose post office address is c/o Semiconductor Intellectual Property & Licensing Department, KABUSHIKI KAISYA TOSHIBA, 580-1, Korikawa-Cho, Saiwai-ku, Kawasaki-shi, 210, Japan, and its successors and assigns, the two corporations hereinafter together 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 me, receipt and sufficiency of which I hereby acknowledge, 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 my 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 Assistant Commissioner for Patents 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 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 I have good right to assign the same to Assignee without encumbrance;

5. Bind my heirs, legal representatives and assigns, as well as myself, to do, upon Assignee's request and at Assignee's expense, but without additional consideration to 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 me, 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 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 my control or in the control of my heirs, legal representatives or assigns which may be useful for establishing any facts of my conceptions, disclosures, and reduction to practice of said inventions or discoveries.

IN WITNESS WHEREOF:

DATE I SIGNED INVENTOR'S DECLARATION: _____

Today's Date: 10.7.97

[Signature]
(Inventor's Name) Tong-Bi Pei

State of California, County of:
Santa Clara

On 10-7-97 before me,
the undersigned, personally appeared,
Tong-Bi Pei, personally known to me (or
proved to me on the basis of satisfactory evidence) to be
the person whose name is subscribed to the within instrument
and acknowledged to me that he executed the same in his
authorized capacity, and that by his signature on the
instrument the person, or the entity upon behalf of which
the person acted, executed the instrument.

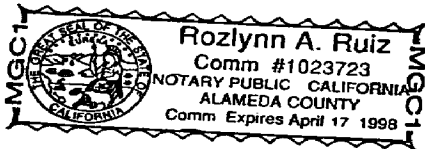
Witness my hand and official seal:

Signature: Rozlynn A. Ruiz

Name: Rozlynn A. Ruiz

My Commission Expires: 4-17-98

Seal:



ASSIGNMENT

WHEREAS, Kohei Abe, has made certain inventions or discoveries (or both) set forth in an Application for Letters Patent of the United States of America entitled NON-ZERO MINIMUM CELL RATE FOR AVAILABLE BIT RATE ATM SERVICE, the specification of which:

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

_____ was filed on _____ as Application Serial No. _____;

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

WHEREAS, jointly, Digital Equipment Corporation, a corporation of the Commonwealth of Massachusetts, whose address is 111 Powdermill Road, Maynard, Massachusetts 01754, U.S.A., and its successors and assigns, and KABUSHIKI KAISYA TOSHIBA, a Japanese corporation, whose address is 72 Horikawa-cho, Saiwai-ku, Kawasaki-shi, Japan; and whose post office address is c/o Semiconductor Intellectual Property & Licensing Department, KABUSHIKI KAISYA TOSHIBA, 580-1, Korikawa-Cho, Saiwai-ku, Kawasaki-shi, 210, Japan, and its successors and assigns, the two corporations hereinafter together 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 me, receipt and sufficiency of which I hereby acknowledge, 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 my 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 Assistant Commissioner for Patents 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 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 I have good right to assign the same to Assignee without encumbrance;

5. Bind my heirs, legal representatives and assigns, as well as myself, to do, upon Assignee's request and at Assignee's expense, but without additional consideration to 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 me, 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 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 my control or in the control of my heirs, legal representatives or assigns which may be useful for establishing any facts of my conceptions, disclosures, and reduction to practice of said inventions or discoveries.

IN WITNESS WHEREOF:

DATE I SIGNED INVENTOR'S DECLARATION: October 22 1997

安部 浩平

KOHEI ABE (SIGNATURE)

Date: October 22, 1997

Witnessed:

(PRINTED NAME) SHOJI NOMURA

(SIGNATURE) S. Nomura

KOICHI TANAKA

Koichi Tanaka