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Form PTO-1595
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U.S. Department of Commerce
Patents & Trademark Office

Attorney Docket No. 108390-00043
Date: January 30, 2003

JCS 82 U.S. PTO
10/354023
01/30/03

To the Assistant Commissioner of Patents
Please record the attached original documents or copy thereof

1. Name of conveying party(ies)

Norifumi FUKAWA
Nobuhiko AKASAKA
Koichi YAMAMOTO

1-30-03

Additional name(s) of conveying party(ies) attached?

Yes No

2. Name and address of receiving party(ies):

Name: FUJITSU LIMITED

Address: 1-1, Kamikodanaka 4-chome, Nakahara-ku,
Kawasaki-shi, Kanagawa 211-8588 Japan

Additional name(s) & address(es) attached?

Yes No

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other _____

Execution Date: October 2, 2002

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 2, 2002

A. Patent Application No.(s)

10,354,023

B. Patent No.(s)

Additional numbers attached? Yes No

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

Name: Arent Fox Kintner Plotkin & Kahn PLLC

Street Address: 1050 Connecticut Avenue, N.W., Suite 400

Washington, D.C. 20036-5339

6. Total number of applications and patents involved:
One

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

Included in attached check.

Any additional fees are authorized to be charged to deposit account

8. Deposit account number: 01-2300

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

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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.

Charles M. Marmelstein

January 30, 2003

Name of Person Signing
Reg. No. 25,895

Signature

Date

Total number of pages including cover sheet, attachments, and document: 2

CMM/ars

ARENT FOX KINTNER PLOTKIN & KAHN, PLLC

Docket No. _____

U.S. ASSIGNMENT

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter ASSIGNOR) by

[Insert
ASSIGNEE's
Name(s)
Address(es)]

FUJITSU LIMITED, 1-1, Kamikodanaka 4-chome, Nakahara-ku,
Kawasaki-shi, Kanagawa 211-8588 Japan

(hereinafter ASSIGNEE), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the invention entitled

[Title of
Invention]

DIRECT MEMORY ACCESS DEVICE

for which application for Letters Patent of the United States was executed on even date herewith unless otherwise indicated below:

[*If the assignment
is being filed
after the filing of the
application, this
section must be
completed]

*filed on _____, Serial No. _____

(Arent Fox Kintner Plotkin & Kahn is hereby authorized to insert the series code, serial number and/or filing date hereon, when known)

and all Letters Patent of the United States to be obtained therefor on said application or any continuation, division, renewal, substitute, reissue or reexamination thereof for the full term or terms for which the same may be granted.

The ASSIGNOR agrees to execute all papers necessary in connection with application and any continuing, divisional, reissue or reexamination applications thereof and also to execute separate assignments in connection with such applications as the ASSIGNEE may deem necessary or expedient.

The ASSIGNOR agrees to execute all papers necessary in connection with any interference, litigation, or other legal proceeding which may be declared concerning this application or any continuation, division, reissue or reexamination thereof or Letters Patent or reissue patent issued thereon and to cooperate with the ASSIGNEE in every way possible in obtaining and producing evidence and proceeding with such interference, litigation, or other legal proceeding.

IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).

[Signature(s)
of Assignor(s)]

<u>Norifumi Fukawa</u> (SIGNATURE)	<u>Norifumi FUKAWA</u> (TYPE NAME)	<u>Oct. 2, 2002</u> (DATE)
<u>Nobuhiko Akasaka</u> (SIGNATURE)	<u>Nobuhiko AKASAKA</u> (TYPE NAME)	<u>Oct. 2, 2002</u> (DATE)
<u>Koichi Yamamoto</u> (SIGNATURE)	<u>Koichi YAMAMOTO</u> (TYPE NAME)	<u>Oct. 2, 2002</u> (DATE)
_____ (SIGNATURE)	_____ (TYPE NAME)	_____ (DATE)
_____ (SIGNATURE)	_____ (TYPE NAME)	_____ (DATE)
_____ (SIGNATURE)	_____ (TYPE NAME)	_____ (DATE)

PATENT