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To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.

11.29.01

1. Name of conveying party(ies):
Kiyotaka MOTOKI; Norio MICHIE; Yasuhiro HATTORI;
Hiromitsu SHIMIZU; and Takao OKAMURA

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

2. Name and address of receiving party(ies):
Name: Ricoh Company, Ltd.
Address: 3-6, Nakamagome 1-chome,
Ohta-ku, Tokyo, 143-8555
JAPAN

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

3. Nature of Conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other

Execution Date: November 08, 2001


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)
09/964,464

Additional numbers attached? Yes No

B. Patent No.(s)

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


22850

6. Total applications and patents involved: 1
7. Total fee (37 CFR 3.41): \$40.00
 Enclosed
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8. Deposit account number: 15-0030
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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.

Marvin J. Spivak
Name of Person Signing

Joseph A. Scafetta, Jr.
Signature
Joseph A. Scafetta, Jr.
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Nov. 29, 2001
Date

Registration Number: 24,913

Total number of pages including this cover sheet: 3

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PATENT
REEL: 012327 FRAME: 0634

Assignment Of Application

WHEREAS, I (WE) KIYOTAKA MOTEKI, NORIO MICHIIIE,
YASUHIRO HATTORI, HIROMITSU SHIMIZU and TAKAO OKAMURA

INSERT NAMES
AND RESIDENCE
ADDRESSES OF
THE INVENTORS:

of Tokyo, Japan,

Tokyo, Japan,

Kanagawa, Japan,

Tokyo, Japan and

Tokyo, Japan

_____, respectively,

INSERT TITLE
OF INVENTION:

have invented certain new and useful improvements in: DATA PROCESSING
APPARATUS AND DMA DATA TRANSFER METHOD,

INSERT DATE IN-
VENTORS SIGNED
DECLARATION:

for which an application for Letters Patent was executed on November 8, 2001

(Application No. 09/964,464, filed September 28, 2001), and

INSERT NAME
AND ADDRESS OF
COMPANY OR
OTHER ASSIGNEE:

WHEREAS, RICOH COMPANY, LTD.

(hereinafter referred to as "ASSIGNEE") having a place of business at: _____

3-6, Nakamagome 1-chome, Ohta-ku, Tokyo 143-8555, Japan,

is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I (WE), by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.

I (WE) hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my (our) entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me (us) had this Assignment and sale not been made.

Further, I (WE) agree that I (WE) will communicate to said ASSIGNEE or its (his) representatives any facts known to me (us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letter Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

The undersigned hereby grant(s) the firm of Oblon, Spivak, McClelland, Maier & Neustadt, P.C. of Fourth Floor, 1755 Jefferson Davis Highway, Arlington, Virginia 22202 the power to insert on this assignment any further identification, including the application number and filing date, which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Date: November 8, 2001

Kiyotaka Moteki
(Signature of Inventor) KIYOTAKA MOTEKI

Date: November 8, 2001

Norio Michiie
(Signature of Inventor) NORIO MICHIEE

Date: November 8, 2001

Yasuhiro Hattori
(Signature of Inventor) YASUHIRO HATTORI

Date: November 8, 2001

Hiromitsu Shimizu
(Signature of Inventor) HIROMITSU SHIMIZU
~~Yasuhiro Hattori H.S.~~

Date: November 8, 2001

Takao Okamura
(Signature of Inventor) TAKAO OKAMURA

Date: _____

(Signature of Inventor)

Date: _____

(Signature of Inventor)

Date: _____

(Signature of Inventor)

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Attest:

[Signature]
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