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SHEET

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

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Tab settings

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

1. Name of conveying party(ies):

Kiyoshi TANIKAWA, Tadashi SAITO, Aino NOGUCHI,
Yasuo KATANO, Kakuji MURAKAMI, Mitsuo HASEBE,
Toshio KAWAKUBO, Satoru TOMITA, Tomoko
TAKAHASHI and Nobuyuki YANAGAWA

Additional names(s) of conveying party(ies) Yes No

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

Name: Ricoh Company, Ltd. MAR 15 2001

Internal Address:

Street Address: 3-6 Nakamagome 1-chome, Ohta-ku,

Tokyo 143-8555, JAPAN

City: State: ZIP:

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

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other

Execution Date: December 20, 21, and 25 1999

4. Application number(s) or registration numbers(s):

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

A. Patent Application No.(s)

B. Patent No.(s)

09/442,869
(filed 11/18/99)

Additional numbers attached? Yes No

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

Name: Mark A. Farley

Internal Address: GREENBERG TRAUERIG, LLP

Street Address: 885 Third Avenue

22nd Floor

City: New York State: NY ZIP: 10022

6. Total number of applications and patents involved: 1

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

Enclosed - Any excess or insufficiency should be credited or debited to deposit account

Authorized to be charged to deposit account

8. Deposit account number:

501561

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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.

Mark A. Farley - Reg. No. 33,170

Mark A Farley

March 12, 2001

Name of Person Signing

Signature

Date

Total number of pages including cover sheet, attachments, and document: 5

PATENT

REEL: 011633 FRAME: 0653

3-15-01

ASSIGNMENT (WORLDWIDE)

WHEREAS, WE, K as per attached
(hereinafter referred to as ASSIGNOR), have invented and own a certain invention entitled
as per attached for which
application for Letters Patent of the United States has been

executed on even date herewith;
 filed on Nov. 18, '99 as Serial No. 09/442,869

WHEREAS, Ricoh Company, Ltd., 3-6, Nakamagome 1-chome, Ohta-ku, Tokyo 143-8555, JAPAN (hereinafter referred to as ASSIGNEE), is desirous of acquiring the entire interest in, to and under said invention and the United States Letters Patent to be obtained therefor;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that in consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration, ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the full and exclusive right, title and interest to the said invention and all Letters Patent of the United States to be obtained therefor on said application or any continuation, division, renewal, substitute or reissue thereof for the full term or terms for which the same may be granted; and all Letters Patent and applications therefor through the world, including all the rights accruing by virtue of the International Convention for the Protection of Industrial Property.

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale;

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent as may be known and accessible to ASSIGNOR and will testify as to the same in any interference or litigation related thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain and enforce said application, said invention and said Letters Patent which may be necessary or desirable to carry out the purposes hereof.

Dated: December 20, 1999

Kiyoshi Tanikawa
KIYOSHI TANIKAWA

Dated: December 25, 1999

Tadashi Saito
TADASHI SAITO

Dated: December 20, 1999

Aino Noguchi
AINO NOGUCHI

Dated: December 20, 1999

Yasuo Katano
YASUO KATANO

Dated: December 21st, 1999

Kakuji Murakami
KAKUJI MURAKAMI

Dated: December 20, 1999

Mitsuo Hasebe
MITSUO HASEBE

December 20, 1999

Toshio Kawakubo

Dated: ~~December 25, 1999~~ ^{T.K.}

Toshio K.K.
TOSHIO KAWAKUBO

Dated: December 20, 1999

Satoru Tomita
SATORU TOMITA

Dated: December 20, 1999

Tomoko Takahashi
TOMOKO TAKAHASHI

Dated: Dec. 20, 1999

Nobuyuki Yanagawa
NOBUYUKI YANAGAWA

Attest:

[Signature]

Kayuhiko Niita