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102715630

To the Honorable Commissioner For Patents. Please record the attached original documents or copy thereof:

1. Name of conveying parties:
Jonathan J. Hull, Kurt W. Piersol, Jamey Graham and Peter E. Hart

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

2. Name and address of receiving party:
Name: Ricoh Co., Ltd.
Internal Address:
Street Address: 15-5 Minami Aoyama 1-Chome, Minato-Ku
City: Tokyo
Country: Japan Zip: 107-8544

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

19270 U.S.PTO
10/814536
033004

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

Execution Date: March 20, 2004

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: March 29, 2004

A. Patent Application No.(s):
10/814536

B. Patent No.(s):

Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:
Name: Laura A. Majerus
Internal Address: Fenwick & West LLP
Street Address: Silicon Valley Center 801 California Street
City: Mountain View State: CA Zip Code: 94041

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

7. Total fee (37 CFR 3.41): \$ 40.00
 Check Enclosed
 Fee Transmittal Enclosed
 Charge the indicated fees to the below mentioned deposit account.

8. Deposit Account No.:

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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.

Laura A. Majerus Laura Majerus March 30, 2004
Name of Person Signing Signature Date

Total number of pages including cover sheet, attachments, documents: [4]

40.00 IP
04/06/2004 10814536
00000218 10814536
01 FC:8021

Mail documents to be recorded with required cover sheet information to: Mail Stop Assignment Recordation Services, Director of the U.S. Patent and Trademark Office, P.O. Box 1450 Alexandria, VA 22313-1450.

Case Docket No.: 20412-08421

PATENT
REEL: 015174 FRAME: 0141

20412/08421/DOCS/1450

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, the person(s) named below (referred to as "INVENTOR" whether singular or plural) has sold, assigned, and transferred and does hereby sell, assign, and transfer to **RICOH CO., LTD.**, a corporation of Japan, having a place of business at 15-5 Minami Aoyama 1-Chome, Minato-ku, Tokyo, Japan 107-8544, ("ASSIGNEE"), for itself and its successors, transferees, and assignees, the following:

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033004

1. The entire worldwide right, title, and interest in all inventions and improvements ("SUBJECT MATTER") that are disclosed in the provisional application filed under 35 U.S.C. §111(b) or non-provisional application filed under 35 U.S.C. §111(a) and entitled **PRINTER WITH EMBEDDED MULTIMEDIA RETRIEVAL** ("APPLICATION"), which:

- is to be filed herewith
 was filed on _____,
 now bearing U.S. application number _____; and

2. The entire worldwide right, title, and interest in and to:
 (a) the APPLICATION; (b) all applications claiming priority from the APPLICATION;
 (c) all utility, divisional, continuation, substitute, renewal, reissue, and other applications related thereto which have been or may be filed in the United States or elsewhere in the world; (d) all patents (including reissues and re-examinations) which may be granted on the applications set forth in (a), (b), and (c) above; and (e) all right of priority in the APPLICATION, together with all rights to recover damages for infringement of provisional rights.

INVENTOR agrees that ASSIGNEE may apply for and receive patents for SUBJECT MATTER in ASSIGNEE's own name.

INVENTOR agrees to do the following, when requested, and without further consideration, in order to carry out the intent of this Assignment: (1) execute all oaths, assignments, powers of attorney, applications, and other papers necessary or desirable to fully secure to ASSIGNEE the rights, titles and interests herein conveyed; (2) communicate to ASSIGNEE all known facts relating to the SUBJECT MATTER; and (3) generally do all lawful acts that ASSIGNEE shall consider desirable for securing, maintaining, and enforcing worldwide patent protection relating to the SUBJECT MATTER and for vesting in ASSIGNEE the rights, titles, and interests herein conveyed. INVENTOR further agrees to provide any successor, assign, or legal representative of ASSIGNEE with the benefits and assistance provided to ASSIGNEE hereunder.

INVENTOR represents that INVENTOR has the rights, titles, and interests to convey as set forth herein, and covenants with ASSIGNEE that the INVENTOR has not made and will not hereafter make any assignment, grant, mortgage, license, or other agreement affecting the rights, titles, and interests herein conveyed.

INVENTOR grants the attorney of record the power to insert on this Assignment any further identification that 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.

This Assignment may be executed in one or more counterparts, each of which shall be deemed an original and all of which may be taken together as one and the same Assignment.

Title of Document: ASSIGNMENT

Re:
Title: Printer With Embedded Multimedia Retrieval
Filed: (if applicable)
Application No.: (if applicable)

Name and Signature Date Assignment Executed By This Person Date Declaration Executed By This Person
Jonathan J. Hull 3/29, 2004 3/29, 2004

State of CALIFORNIA } S.S.
County of SAN MATEO }

On MARCH 29, 2004 before me, SHARON KOJIMA personally
[DATE] [NOTARY PUBLIC]

appeared JONATHAN J. HULL, 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.



Sharon Kojima
Notary

Name and Signature Date Assignment Executed By This Person Date Declaration Executed By This Person
Kurt W. Piersol 29 March, 2004 29 March, 2004

State of CALIFORNIA } S.S.
County of SAN MATEO }

On MARCH 29, 2004 before me, SHARON KOJIMA personally
[DATE] [NOTARY PUBLIC]

appeared KURT W. PIERSOL, 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.



Sharon Kojima
Notary

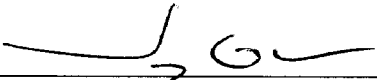
Title of Document: ASSIGNMENT

Re:

Title: Printer With Embedded Multimedia Retrieval

Filed: (if applicable)

Application No.: (if applicable)

<u>Name and Signature</u>	<u>Date Assignment Executed By This Person</u>	<u>Date Declaration Executed By This Person</u>
 JAMEY GRAHAM	3 / 29 , 2004	3 / 29 , 2004

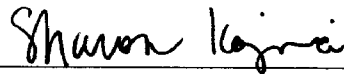
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County of SAN MATEO }

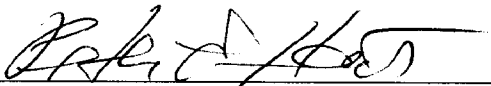
On MARCH 29, 2004 before me, SHARON KOJIMA personally
[DATE] [NOTARY PUBLIC]

appeared JAMEY GRAHAM, 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.

Notary Seal




Notary

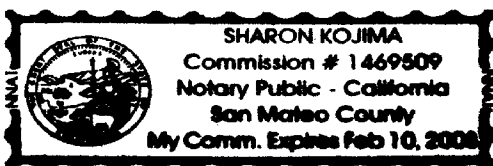
<u>Name and Signature</u>	<u>Date Assignment Executed By This Person</u>	<u>Date Declaration Executed By This Person</u>
 PETER E. HART	3 / 29 , 2004	3 / 29 , 2004

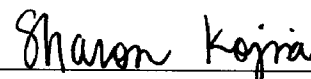
State of CALIFORNIA } S.S.
County of SAN MATEO }

On MARCH 29, 2004 before me, SHARON KOJIMA personally
[DATE] [NOTARY PUBLIC]

appeared PETER E. HART, 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.

Notary Seal




Notary