

MRD  
8-13-98

08-19-1998



To the Honorable Commissioner of Patents and  
Please record the attached original documents

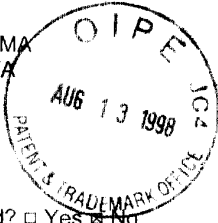
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BOX ASSIGNMENTS

1. Name of conveying party(ies):

1. Noriko YAMAMOTO 2. Chiaki TANUMA  
3. Shiroh SAITOH 4. Isao AMEMIYA  
5. Hitoshi YAGI

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



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

Name: Kabushiki Kaisha Toshiba

Internal Address: 72 Horikawa-cho, Saiwai-ku, Kawasaki-shi, Kanagawa-ken, Japan

3. Nature of conveyance:

Assignment  Merger  
 Security Agreement  Change of Name  
 Other

Execution Date: Inventors: (1) Mar. 23, 1998  
(2), (3), (5) Mar. 27, 1998  
(4) Mar. 28, 1998

Street Address:

City:

State: Zip Code:

Additional name(s) & 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:

A. Patent Application Number(s):  
09/038,152

B. Patent Number(s):

Additional numbers attached?  Yes  No

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

Name: Mr. Ernest F. Chapman

Internal Address: FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P.

6. Total number of applications and registrations involved: 1

7. Total fee (37 CFR 3.41): \$40

Enclosed (Please charge deficiency to deposit account)

Authorized to be charged to deposit account

8/19/1998 JSPABAZZ 00000111 09038152

EC-501  
Street Address: 1300 I Street, N.W. GP 40.00 OP

City: Washington

State: DC Zip: 20005-3315

8. Deposit account number: 06-0916

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.

Richard V. Burgujian

Signature: Date: 8/3/98

JOINT INVENTION  
(U.S. Rights Only)

**ASSIGNMENT**

WHEREAS, We, the below named inventors, (hereinafter referred to as Assignors, have made an invention entitled:

**INK JET RECORDING APPARATUS**

for which we executed an application for United States Letters Patent concurrently herewith or filed an application for United States Letters Patent on March 11, 1998 (Serial No. ); and

WHEREAS, Kabushiki Kaisha Toshiba, a corporation of Japan whose post office address is 72, Horikawa-cho, Saiwai-ku, Kawasaki-shi, Kanagawa-ken, Japan (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention, the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from assignee is hereby acknowledged, we, as assignors, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, our entire right, title, and interest in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof; and we hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue all Letters Patent for this invention to assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, WE HEREBY further covenant and agree that we will, without further consideration, communicate with assignee, its successors and assigns, any facts known to us respecting this invention and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors and assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it being understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and assigns.

AND, WE HEREBY authorize and request the attorneys we have empowered in the Declaration and Power of Attorney in this application, to insert here in parentheses (Application No. 09/038,152 , filed March 11, 1998 ) the filing date and application number of said application when known.

IN TESTIMONY WHEREOF, we have hereunto set our hands.

**FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P.**

**PATENT**  
REEL: 9383 FRAME: 0346

**First Assignor:**

Noriko YAMAMOTO  
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Citizenship: Japan

Signature: Noriko Yamamoto

Date: March 23, 1998

**Second Assignor:**

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Citizenship: Japan

Signature: Chiaki Tanuma

Date: March 27, 1998

**Third Assignor:**

Shiroh Saitoh  
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Citizenship: Japan

Signature: Shiroh Saitoh

Date: March 27, 1998

**Fourth Assignor:**

Isao Amemiya  
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Citizenship: Japan

Signature: Isao Amemiya

Date: March 28, 1998

**Fifth Assignor:**

Hitoshi Yagi  
c/o Intellectual Property Division  
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1-1-1, Shibaura, Minato-ku, Tokyo, Japan

Citizenship: Japan

Signature: Hitoshi Yagi

Date: March 27, 1998