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Docket No.: 49424(904)

FORM PTO-1595 (Modified)  
(Rev. 6-93)  
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To the Honorable Commissioner of Patents and Trademarks: Please return the attached original documents or copy thereof.

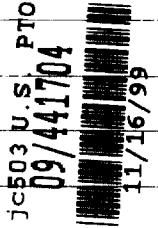
1. Name of conveying party(ies):

**HIROYUKI KATAYAMA  
SHINZO SAWAMURA**

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

Name: **SHARP KABUSHIKI KAISHA**

Address: **22-22 Nagaike-cho, Abeno-ku**



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

3. Nature of conveyance:

- Assignment  Merger
- Security Agreement  Change of Name
- Other

City: **Osaka** State/Prov.:

Country: **Japan** ZIP:

Execution Date: **November 2, 1999**

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

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: **November 2, 1999**

Patent Application No. Filing date

B. Patent No.(s)

Additional numbers  Yes  No

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

Name: **David G. Conlin**

Registration No. **27026**

Address: **Dike, Bronstein, Roberts & Cushman, LLP**

**130 Water Street**

City: **Boston** State/Prov.: **MA**

Country: **USA** ZIP: **02109**

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:

**04-1105**

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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.

**David G. Conlin**

**November 16, 1999**

Name of Person Signing

Signature

Date

Total number of pages including cover sheet, attachments, and

**2**

ASSIGNMENT

We Hiroyuki KATAYAMA  
Shinzo SAWAMURA  
and \_\_\_\_\_  
for good and valuable consideration from SHARP KABUSHIKI KAISHA  
\_\_\_\_\_, a Japanese corporation,  
having its principal place of business in Osaka, Japan  
hereinafter called the Assignee, receipt of which is hereby acknowledged, do hereby  
sell, assign and transfer unto the Assignee, its successors and assigns, the entire  
right, title and interest in, to and under an application for Letters Patent of the  
United States Serial No. \_\_\_\_\_, filed on \_\_\_\_\_ \* signed by us  
for Improvements in MAGNETIC RECORDING MEDIUM AND MAGNETIC REPRODUCING  
METHOD

Including all priority rights ensuing therefrom, and the inventions and any of them  
therein set forth and described, and any and all Letters Patent of the United States  
and of countries foreign thereto which may be granted thereon or therefor, together  
with the right to apply for such Letters Patent.

And for the above consideration we agree promptly upon request of the Assignee,  
its successors or assigns, to execute and deliver without further compensation any  
power of attorney, assignment, application, whether original, divisional, continuation  
or reissue, or other papers which may be necessary or desirable fully to secure to the  
Assignee, its successors and assigns, the inventions and any of them described in said  
application and all patent rights therein, in the United States and in any country  
foreign thereto.

The undersigned hereby grant(s) the law firm of Dike, Bronstein, Roberts &  
Cushman the power to insert on this Assignment any further identification  
which may be necessary or desirable in order to comply with the rules of the  
U.S. Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, I, Hiroyuki KATAYAMA, hereunto set my  
hand and seal this 2nd day of November, 1999, I, Shinzo SAWAMURA  
1999, hereunto set my hand and seal this 2nd day of November  
1999, and I, \_\_\_\_\_, hereunto set my hand and seal  
this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_.

Hiroyuki Katayama  
Shinzo Sawamura

Commonwealth [State] of \_\_\_\_\_ ss.  
County of \_\_\_\_\_

Before me this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_, personally appeared  
\_\_\_\_\_, who is to me personally known, and acknowledged  
the foregoing instrument of assignment to be [her] his free act and deed.

\_\_\_\_\_  
Notary Public

Commonwealth [State] of \_\_\_\_\_ ss.  
County of \_\_\_\_\_

Before me this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_, personally appeared  
\_\_\_\_\_, who is to me personally known, and acknowledged  
the foregoing instrument of assignment to be [her] his free act and deed.

\_\_\_\_\_  
Notary Public

\*Where the application is assigned before it is filed,  
and hence has no Serial No., this shall be left blank.