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1. Name of conveying party(ies):  
**Toshihisa MATSUO**

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

Name: **Sharp Kabushiki Kaisha**

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

715 U.S. PTO  
10/023062  
12/14/01

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: **545-8522**

Execution Date: **November 26, 2001**

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

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

If this document is being filed together with a new application, the execution date of the application is: **November 26, 2001**

Patent Application No. Filing date B. Patent No.(s)

10/023062

Additional numbers  Yes  No

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

6. Total number of applications and patents involved: **1**

Name: **David A. Tucker**

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

Registration No. **27,840**

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

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

Authorized to be charged to deposit account

**Intellectual Property Practice Group, Edwards & Angell**

8. Deposit account number:

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**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 A. Tucker (Reg. No. 27,840)**

*David A. Tucker*

**December 14, 2001**

Name of Person Signing

Signature

**2**

Date

Total number of pages including cover sheet, attachments, and

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**PATENT**

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A S S I G N M E N T

We Toshihisa MATSUO,  
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 OPTICAL RECORDING MEDIUM AND REPRODUCING APPARATUS

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, Toshihisa MATSUO, hereunto set my  
hand and seal this 26th day of November, 2001, I, \_\_\_\_\_,  
hereunto set my hand and seal this \_\_\_\_\_ day of \_\_\_\_\_,  
and I, \_\_\_\_\_, hereunto set my hand and seal  
this \_\_\_\_\_ day of \_\_\_\_\_.

Matsuo Toshihisa  
\_\_\_\_\_  
\_\_\_\_\_

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.