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

## 1. Name of conveying party(ies):

**KAZUTAKA ABE**  
**TETSUO IWAKI**

Additional names(s) of conveying party(ies)

☐ Yes ☒ No

## 3. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ OtherExecution Date: **June 2, 2000**

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

Name: **SHARP KABUSHIKI KAISHA**Address: **22-22 Nagaike-cho, Abeno-ku**City: **Osaka**

State/Prov.: \_\_\_\_\_

Country: **Japan**

ZIP: \_\_\_\_\_

Additional name(s) &amp; 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: \_\_\_\_\_

Patent Application No.

Filing date

**09/565,950****5/5/00**

B. Patent No.(s)

09/565,950 (Patent No.)

05/05/00 (Filing Date)

Additional numbers

☐ Yes ☒ No

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

Name: **David G. Conlin**Registration No. **27026**Address: **Dike, Bronstein, Roberts & Cushman,****Intellectual Property Practice Group****EDWARDS & ANGELL, 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 (Reg. No. 27026)**

Name of Person Signing

Signature

**August 22, 2000**

Date

Total number of pages including cover sheet, attachments, and

**3**

**PATENT**  
**REEL: 011029 FRAME: 0468**

ATTORNEY DOCKET NO.

49798(551)

## ASSIGNMENT

Application No. 09/565,950

Filed May 5, 2000

Insert Name(s)  
of Inventor(s)

WHEREAS, Kazutaka ABE and Tetsuo IWAKI

Insert Title  
of Invention

(hereinafter designated as the undersigned) has (have) invented certain new and useful improvements in \_\_\_\_\_

OPTICAL RECORDING MEDIUM AND OPTICAL RECORDING AND

REPRODUCING APPARATUS

for which an application for Letters Patent of the United States of America has been executed by the undersigned

Insert Date  
of Signing of  
Application

on June 2, 2000; and

Insert Name  
of Assignee

WHEREAS, Sharp Kabushiki Kaisha

Insert Address  
of Assignee

of 22-22, Nagaike-cho, Abeno-ku, Osaka-shi, Osaka, Japan

CHECK BOX  
IF APPROPRIATE

its heirs, successors, legal representatives and assigns (hereinafter designated as the Assignee) is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent(s) that may be granted therefor in the United States of America and

☒ in any and all foreign countries.

NOW, THEREFORE, in consideration of the sum of Ten Dollars (\$10.00) to the undersigned in hand paid, the receipt of which is hereby acknowledged, and other good and valuable consideration, the undersigned has (have) sold, assigned and transferred, and by these presents does sell, assign and transfer unto said Assignee the full and exclusive right to the said invention in the United States of America, its territories, dependencies and possessions and the entire right, title and interest in and to any and all Letters Patent(s) which may be granted therefor in the United States of America, its territories, dependencies and possessions, and if the box above is designated, in any and all foreign countries;

and to any and all divisions, reissues, continuations and extensions thereof for the full term or terms for which the same may be granted.

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division or reissue thereof or Letters Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

The undersigned agree(s) to execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States of America patent(s) or a grant of a valid United States of America and any foreign patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorize(s) the request(s) the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patents resulting from said application or any continuing, divisional or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) the full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the law firm of Dike, Bronstein, Robert & 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.

The undersigned hereby covenant(s) that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

Date <u>June 2, 2000</u>	Name of Inventor <u>Kazutaka ABE</u> (signature) Kazutaka ABE
Date <u>June 2, 2000</u>	Name of Inventor <u>Tetsuo Iwaki</u> (signature) Tetsuo IWAKI
Date _____	Name of Inventor _____ (signature)
Date _____	Name of Inventor _____ (signature)
Date _____	Name of Inventor _____ (signature)
Date _____	Name of Inventor _____ (signature)
Date _____	Name of Inventor _____ (signature)
Date _____	Name of Inventor _____ (signature)
Date _____	Name of Inventor _____ (signature)
Date _____	Name of Inventor _____ (signature)