

12-23-1998

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U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

100928915

To the Honorable Commissioner of Patents

Attached original documents or copy thereof.

## 1. Name of conveying party(ies)

Akihito NAKAYAMA, Kenji SHINTANI, Shunsuke KOHAMA, Yukari  
HASHIMOTO, Hideo KATOAdditional name(s) of conveying party(ies) attached?  
\_\_\_ Yes X No

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

Name: Sony Precision Engineering Center (S) Pte. Ltd.  
52 Tuas Avenue 9  
Singapore 639193

and

Disk Ware Co. Ltd.  
Nakoji Kiba Bldg. 2F  
1-4-12 Kiba, Koto-ku, Tokyo 135-0042  
Japan

and

Sony Corporation  
7-35 Kitashinagawa 6-chome  
Shinagawa-ku, Tokyo 141  
Japan

## 3. Nature of conveyance:

- ☒
- Assignment
- 
- ☐
- Security Agreement
- 
- ☐
- Merger
- 
- ☐
- Change of Name
- 
- ☐
- Other

Execution Date(s): November 2, November 2, November 16,  
November 16, and November 17, 1998Additional name(s) & address(es) attached? \_\_\_ Yes X 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 is:A. Patent Application No.(s) 09/182,179 filed October 29, 1998Additional numbers attached? \_\_\_ Yes X No5. Name and address of party to whom correspondence  
concerning document should be mailed:

Name: WILLIAM S. FROMMER

Internal Address: FROMMER LAWRENCE &amp; HAUG LLP

Street Address: 745 FIFTH AVENUE

City: NEW YORK State: N.Y. Zip: 101516. Total number of applications and  
patents involved . . . . .

1

7. Total fee (37 CFR 3.41) . . . . . \$ 40.00  
X Enclosed  
\_\_\_ Authorized to be charged to  
deposit account 50-03208. Deposit account number:  
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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.WILLIAM S. FROMMER  
Name of Person SigningGordon Kessler  
SignatureDecember 15, 1998  
DateTotal number of pages including cover  
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PK2-1000C, Washington, D.C. 20231, and to the Office of Management and Budget, Paperwork Reduction Project (0651-0011),  
Washington, D.C. 20503.

WHEREAS, I, as below named inventors, residing at the addresses stated next to our names, am a sole inventor (if only one name is listed below) or a joint inventor (if plural names are listed below) of certain new and useful improvements in

APPARATUS AND METHOD FOR MEASURING CHARACTERISTICS OF OPTICAL PICKUP AND/OR OPTICAL DISC

for which application for Letters Patent of the United States of America was executed by me on the date indicated next to my name and address;

AND WHEREAS, Sony Precision Engineering Center (S) Pte. Ltd., a Singapore corporation, with offices at 52 Tuas Avenue 9, Singapore 639193, Disk Ware Co. Ltd., a Japanese corporation, with offices at Nakoji Kiba Bldg. 2F, 1-4-12 Kiba, Koto-ku, Tokyo 135-0042, Japan and Sony Corporation, a Japanese corporation, with offices at 7-35 Kitashinagawa 6-Chome, Shinagawa-ku, Tokyo 141, Japan (hereinafter referred to as ASSIGNEE) is desirous of acquiring all interest in, to and under said invention, said application disclosing the invention and in, to and under any Letters Patent or similar legal protection which may be granted therefor in the United States and in any and all foreign countries;

NOW THEREFORE, in consideration of the sum of One Dollar (\$1.00), and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I, as a sole or joint inventor as indicated below, by these presents do hereby assign, sell and transfer unto the said ASSIGNEE, its successors, assigns, and legal representatives, the entire right, title and interest in the said invention, said application, including any divisions and continuations thereof, and in and to any and all Letters Patent of the United States, and countries foreign thereto, which may be granted for said invention, and in and to any and all priority rights and/or convention rights under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of America adheres, and to any other benefits accruing or to accrue to me with respect to the filing of applications for patents or securing of patents in the United States and countries foreign thereto, and I hereby authorize and request the Commissioner of Patents to issue the said United States Letters Patent to said ASSIGNEE, as the assignee of the whole right, title and interest thereto;

And I further agree to execute all necessary or desirable and lawful future documents, including assignments in favor of ASSIGNEE or its designee, as ASSIGNEE or its successors, assigns and legal representatives may from time-to-time present to me and without further remuneration, in order to perfect title in said invention, modifications, and improvements in said invention, applications and Letters Patent of the United States and countries foreign thereto;

And I further agree to properly execute and deliver and without further remuneration, such necessary or desirable and lawful papers for application for foreign patents, for filing subdivisions of said application for patent, and or, for obtaining any reissue or reissues of any Letters patent which may be granted for my aforesaid invention, as the ASSIGNEE thereof shall hereafter require and prepare at its own expense;

And I further agree that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent and legal equivalents in foreign countries as may be known and accessible to me and will testify as to the same in any interference or litigation related thereto;

And I hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale.

And I hereby authorize and request my attorney(s) of record in this application to insert the serial number and filing date of this application in the spaces that follow: Serial Number: \_\_\_\_\_, Filing Date: \_\_\_\_\_.

This assignment executed on the dates indicated below.

Akihito NAKAYAMA

Name of first or sole inventor	Execution date of U.S. Patent Application
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205 River Valley Road #10-54, UE Square, Singapore 238274

Residence of first or sole inventor

*Akihito Nakayama*

Signature of first or sole inventor

*2nd NOV 1998*

Date of this assignment

Kenji SHINTANI

Name of second inventor	Execution date of U.S. Patent Application
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8 Chancery Lane #03-03, Singapore 309494

Residence of second inventor

*Kenji Shintani*

Signature of second inventor

*2nd NOV 1998*

Date of this assignment

Shunsuke KOHAMA

Name of third inventor	Execution date of U.S. Patent Application
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468-519 Sonnou Inage-ku, Chiba City, Chiba, Japan

Residence of third inventor

*S Kohama*

Signature of third inventor

*16th NOV 1998*

Date of this assignment

Yukari HASHIMOTO

Name of fourth inventor

Execution date of U.S. Patent Application

23-31 Mori 5 Choume Isogo-ku, Yokohama City, Kanagawa, Japan

Residence of fourth inventor

Y. Hashimoto

\* 16th Nov 1998

Signature of fourth inventor

Date of this assignment

Hideo KATO

Name of fifth inventor

Execution date of U.S. Patent Application

347-3-202 Noborito, Tama-ku, Kawasaki, Kanagawa, Japan

Residence of fifth inventor

Hideo Kato

\* 17th Nov 1998

Signature of fifth inventor

Date of this assignment