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FORM PTO-1595

RECOR

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U.S. DEPARTMENT OF COMMERCE

1/27/92

PATENTS ONLY

Patent and Trademark Office

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

1. Name of conveying party(ies)
 MASAHIKO YAMAZAKI
 KIYOSHI HASEGAWA

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

2. Name and address of receiving party(ies):
 Name: Sony Corporation
 Internal Address: _____

3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other _____

Execution Date January 7, 1999

Street Address: 7-35, Kitashinagawa 6-Chome
Shinagawa-Ku
 City: Tokyo, Japan State: _____ Zip: _____
 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 is:

A: Patent Application No.(s) B: Patent No.(s)
 USSN 09/ 90,463 filed November 13, 1998

Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:
 Hill & Simpson, P.C.
 35th Floor Sears Tower
 233 S. Wacker Drive
 Chicago, IL 60606

6. Total number of applications and patents involved
 _____ 1 _____

7. Total Fee (37 CFR 3.41) \$ 40.00
 Enclosed
 Authorized to be charged to deposit account and Additional fees

8. Deposit Account Number:
08-2290
 (Attach duplicate copy of this page if paying by deposit account)

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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.

John D. Simpson January 25, 1999
 Name of Person Signing Signature Date

Total number of pages comprising cover sheet _____

Mail documents to be recorded and required cover sheet information to:
 Commissioner of Patents and Trademarks
 Box Assignments
 Washington, D.C. 20231

01/29/1999 BANGUYEN 00000139 09190463

01 FC:581

40.00 OP

ASSIGNMENT

WHEREAS, I, as a below named inventor, residing at the address stated next to my name, 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 MAGNETIC HEAD DEVICE AND METHOD FOR PRODUCING SAME

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 Corporation, a Japanese corporation with offices at 7-35 Kitashinagawa 6-Chome, Shinagawa-Ku, Tokyo, Japan (hereinafter referenced 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: 09/190,463, Filing Date: 11/13/1998

This assignment executed on the dates indicated below.

MASAHIKO YAMAZAKI January 7, 1999
Name of first or sole inventor Execution date of U.S. Patent Application

MINAGOI, JAPAN
Residence of first or sole inventor

Masahiko Yamazaki January 7, 1999
Signature of first or sole inventor Date of this assignment

KIYOSHI HASEGAWA

January 7, 1999

Name of second inventor

Execution date of U.S. Patent Application

MIYAGI, JAPAN

Residence of second inventor

Kiyoshi Hasegawa

January 7, 1999

Signature of second inventor

Date of this assignment

Name of third inventor

Execution date of U.S. Patent Application

Residence of third inventor

Signature of third inventor

Date of this assignment

Name of fourth inventor

Execution date of U.S. Patent Application

Residence of fourth inventor

Signature of fourth inventor

Date of this assignment

Name of fifth inventor

Execution date of U.S. Patent Application

Residence of fifth inventor

Signature of fifth inventor

Date of this assignment