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PATENTS ONLY

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FROMMER LAWRENCE & HAUG LLP
745 Fifth Avenue
New York, New York 10151
(212) 588-0800Attorney Docket No. 450100-04985

Applicants:

Kenichi NAKANISHI, Junko SASAKI, Nobuhiro
KANEKO, Osamu NAGATA, Hideaki OKUBO

For:

DATA STORAGE DEVICE, METHOD OF UPDATING
MANAGEMENT INFORMATION IN A DATA
STORAGE DEVICE, AND COMPUTER PROGRAM

U.S. Serial No.:

Filed Concurrently Herewith

Corresponding International Application. No.:

PCT/JP04/002924

International Filing Date:

March 5, 2004

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Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-14501. Names of Conveying Parties:Kenichi NAKANISHI, Junko SASAKI, Nobuhiro
KANEKO, Osamu NAGATA, Hideaki OKUBO2. Names and addresses of receiving parties:SONY CORPORATION
7-35 Kitashinagawa 6-chome
Shinagawa-Ku, Tokyo 141-0001, Japan

3. Nature of Conveyance:

Assignment

Execution Date(s):

October 12, October 12, October 12, October 14 and October
12, 20044. ☐ Application No.:☒ This document is being filed together with a new application, the execution date of the application is:
October 12, October 12, October 12, October 14 and October 12, 20045. Name and address of party to whom the recorded assignment and any correspondence concerning the document
should be mailed:William S. Frommer
Registration No. 25,506
FROMMER LAWRENCE & HAUG LLP
745 Fifth Avenue
New York, New York 101516. Total number of applications and patents involved: 1

7. Total Fee (37 CFR 3.41):

\$40.00☒ Fee enclosed.8. ☐ Charge Fee Deposit Account No. 50-0320 (Attach duplicate copy of this page if paying by deposit account).☐ If any additional fee is required, authorization is hereby given to charge Deposit Account No. 50-0320.

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 Signing

Signature

November 18, 2004

Date

00232062

PATENT
REEL: 016455 FRAME: 0400

ASSIGNMENT

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 DATA STORAGE DEVICE, METHOD OF UPDATING MANAGEMENT INFORMATION IN A DATA STORAGE DEVICE, AND COMPUTER PROGRAM

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 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:

International Application No.: PCT/JP2004/002924, International Filing Date: March 5, 2004

This assignment executed on the dates indicated below.

Kenichi NAKANISHI

Name of first or sole inventor
Tokyo, Japan

Execution date of U.S. Patent Application

Residence of first or sole inventor

Kenichi Nakanishi

12 Oct, 2004

Signature of first or sole inventor

Date of this assignment

Junko SASAKI

Name of second inventor
Tokyo, Japan

Execution date of U.S. Patent Application

Residence of second inventor

Junko Sasaki

12 Oct, 2004

Signature of second inventor

Date of this assignment

Nobuhiko KANEKO

Name of third inventor
Kanagawa, Japan

Execution date of U.S. Patent Application

Residence of third inventor

Nobuhiko Kaneko

12 Oct, 2004

Signature of third inventor

Date of this assignment

ADDITIONAL INVENTOR(S) ON NEXT PAGE

Osamu NAGATA

Name of fourth inventor
Aichi, Japan

Execution date of U.S. Patent Application

Residence of fourth inventor

Osamu Nagata
Signature of fourth inventor

14 Oct 2004
Date of this assignment

Hideaki OKUBO

Name of fifth inventor
Saitama, Japan

Execution date of U.S. Patent Application

Residence of fifth inventor

Hideaki Okubo
Signature of fifth inventor

12 Oct 2004
Date of this assignment

Name of sixth inventor

Execution date of U.S. Patent Application

Residence of sixth inventor

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Date of this assignment

Name of ninth inventor

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