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

## 1. Name of conveying party(ies)

Shiro HAGIHARA, Hisao TANAKA, Hideki ANDO, Masaki HIROSE,  
Satoshi KATSUO, Takashi FURUKAWA, Takayoshi KAWAMURA,  
Motohiro TERAQAdditional name(s) of conveying party(ies) attached?  
☐ Yes ☒ No

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

Name: SONY CORPORATION  
7-35 Kitashinagawa 6-chome  
Shinagawa-Ku, Tokyo 141-0001, JapanAdditional name(s) & address(es) attached? ☐ Yes ☒ No

## 3. Nature of conveyance:

☒ Assignment  
☐ Security Agreement  
☐ Merger  
☐ Change of Name  
☐ OtherExecution Date: December 3, December 8, December 8, December 8, December 8, December 8, December 8 and December 8, 200322387 U.S. PTO  
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## 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: December 3, December 8, December 8, December 8, December 8, December 8, December 8 and December 8, 2003

A. Patent Application No.(s) \_\_\_\_\_ filed \_\_\_\_\_

Additional numbers attached? ☐ Yes ☒ No

## 5. 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: 10151

## 6. Total number of applications and patents involved . . . . .

1

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

Signature

December 16, 2003

Date

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## 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-PROCESSING APPARATUS, DATA-PROCESSING METHOD AND 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: Serial Number: \_\_\_\_\_, Filing Date: \_\_\_\_\_.

This assignment executed on the dates indicated below.

Shiro HAGIHARA

Name of first or sole inventor  
Kanagawa, Japan

Execution date of U.S. Patent Application

Residence of first or sole inventor

*Shiro Hagihara*

*December 3, 2003*

Signature of first or sole inventor

Date of this assignment

Hisao TANAKA

Name of second inventor  
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Execution date of U.S. Patent Application

Residence of second inventor *Dec. 8, 2003*

*Hisao Tanaka*

*H.T. Dec. 8, 2003*

*Dec. 8, 2003*

*Dec. 8, 2003*

Signature of second inventor

Date of this assignment

Hideki ANDO

Name of third inventor  
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Execution date of U.S. Patent Application

Residence of third inventor

*Hideki Ando*

*December 8, 2003*

Signature of third inventor

Date of this assignment

ADDITIONAL INVENTOR(S) ON NEXT PAGE

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Execution date of U.S. Patent Application

Residence of fourth inventor

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*December 8, 2003*

Signature of fourth inventor

Date of this assignment

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Execution date of U.S. Patent Application

Residence of fifth inventor

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*Dec. 8, 2003*

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*Dec. 8, 2003*

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Execution date of U.S. Patent Application

Residence of seventh inventor

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*Dec. 8, 2003*

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Date of this assignment

Motohiro TERAOKA

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Execution date of U.S. Patent Application

Residence of eighth inventor

*Motohiro Terao*

*Dec 8, 2003*

Signature of eighth inventor

Date of this assignment

Name of ninth inventor

Execution date of U.S. Patent Application

Residence of ninth inventor

Signature of ninth inventor

Date of this assignment