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

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| <p>1. Name of conveying party(ies) G. Y. US</p> <p>Daizoh NAGAHARA, Thomas LUTHER, Hiroaki ETO, Kanchan RANADE, David WANG, Tetsuya YAMAMOTO</p> <p>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> | <p>2. Name and address of receiving party(ies)</p> <p>Name: SONY CORPORATION 7-35 Kitashinagawa 6-chome Shinagawa-Ku, Tokyo 141-0001, Japan</p> <p>and Sony Electronics Inc. 1 Sony Drive Park Ridge, NJ 07656</p> <p>Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> |
| <p>3. Nature of conveyance:</p> <p><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Security Agreement <input type="checkbox"/> Merger <input type="checkbox"/> Change of Name <input type="checkbox"/> Other</p> <p>Execution Date(s): <u>June 23, June 30, June 23, June 25, June 30 and June 23, 2003</u></p> | |

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) 10/408,709 filed April 7, 2003

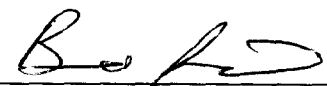
Additional numbers attached? Yes No

2003 AUG -4 AM 4: 59
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|---|--|
| <p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Name: WILLIAM S. FROMMER</p> <p>Internal Address: FROMMER LAWRENCE & HAUG LLP</p> <p>Street Address: 745 FIFTH AVENUE</p> <p>City: <u>NEW YORK</u> State: <u>N.Y.</u> Zip: <u>10151</u></p> | <p>6. Total number of applications and patents involved <u>1</u></p> <p>7. Total fee (37 CFR 3.41) \$ <u>40.00</u></p> <p><input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Authorized to be charged to deposit account 50-0320</p> <p>8. Deposit account number: (Attach duplicate copy of this page if paying by deposit account)</p> |
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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.

BRUNO POLITO  August 1, 2003

Name of Person Signing Signature Date

Total number of pages including cover sheet, attachments, and document: 9

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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

VIDEO AND AUDIO DATA RECORDING APPARATUS, VIDEO AND AUDIO DATA RECORDING METHOD, VIDEO AND AUDIO DATA REPRODUCING APPARATUS, AND VIDEO AND AUDIO DATA REPRODUCING METHOD

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 141, Japan and Sony Electronics Inc., a Park Ridge, NJ corporation, with offices at 1 Sony Drive, Park Ridge, NJ 07656 (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: 10/408,709, Filing Date: April 7, 2003.

This assignment executed on the dates indicated below.

Daizoh NAGAHARA

| | |
|-------------------------------------|---|
| Name of first or sole inventor | Execution date of U.S. Patent Application |
| Tokyo, Japan | |
| Residence of first or sole inventor | |
| Signature of first or sole inventor | Date of this assignment |
| <u>Daizoh NAGAHARA</u> | <u>June 23, 2003</u> |

Thomas LUTHER

| | |
|------------------------------|---|
| Name of second inventor | Execution date of U.S. Patent Application |
| Sunnyvale, California | |
| Residence of second inventor | |
| Signature of second inventor | Date of this assignment |

Hiroaki ETO

| | |
|-----------------------------|---|
| Name of third inventor | Execution date of U.S. Patent Application |
| Tokyo, Japan | |
| Residence of third inventor | |
| Signature of third inventor | Date of this assignment |
| <u>Hiroaki ETO</u> | <u>June 23, 2003</u> |

ADDITIONAL INVENTORS

Kanchan RANADE

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

Mountain View, California

Residence of fourth inventor

Signature of fourth inventor Date of this assignment

David WANG

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

Los Altos, California

Residence of fifth inventor

Signature of fifth inventor Date of this assignment

Tetsuya YAMAMOTO

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

Tokyo, Japan

Residence of sixth inventor

Signature of sixth inventor *Tetsuya YAMAMOTO* *June 23, 2003*

Signature of sixth inventor Date of this assignment

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| Tokyo, Japan | |
| Residence of first or sole inventor | |
| Signature of first or sole inventor | Date of this assignment |

Thomas LUTHER

| | |
|------------------------------|---|
| Name of second inventor | Execution date of U.S. Patent Application |
| Sunnyvale, California | |
| Residence of second inventor | |
| Signature of second inventor | Date of this assignment |

Hiroaki ETO

| | |
|-----------------------------|---|
| Name of third inventor | Execution date of U.S. Patent Application |
| Tokyo, Japan | |
| Residence of third inventor | |
| Signature of third inventor | Date of this assignment |

ADDITIONAL INVENTORS

Kanchan RANADE

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

Mountain View, California

Residence of fourth inventor

Signature of fourth inventor Date of this assignment

David WANG

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

Los Altos, California

Residence of fifth inventor

Signature of fifth inventor Date of this assignment

Tetsuya YAMAMOTO

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

Tokyo, Japan

Residence of sixth inventor

Signature of sixth inventor Date of this assignment

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| Tokyo, Japan | |

Residence of first or sole inventor

| | |
|-------------------------------------|-------------------------|
| Signature of first or sole inventor | Date of this assignment |
| Thomas LUTHER | |

| | |
|-------------------------|---|
| Name of second inventor | Execution date of U.S. Patent Application |
| Sunnyvale, California | |

Residence of second inventor

| | |
|------------------------------|-------------------------|
| Signature of second inventor | Date of this assignment |
| | |

| | |
|------------------------|---|
| Name of third inventor | Execution date of U.S. Patent Application |
| Tokyo, Japan | |

Residence of third inventor

| | |
|-----------------------------|-------------------------|
| Signature of third inventor | Date of this assignment |
| | |

ADDITIONAL INVENTORS

Kanchan RANADE

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

Mountain View, California

Residence of fourth inventor

Signature of fourth inventor *K Ranade* Date of this assignment *JUNE 25th, '03*

David WANG

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

Los Altos, California

Residence of fifth inventor

Signature of fifth inventor Date of this assignment

Tetsuya YAMAMOTO

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

Tokyo, Japan

Residence of sixth inventor

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Tokyo, Japan

Residence of first or sole inventor

Signature of first or sole inventor Date of this assignment

Thomas LUTHER

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

Sunnyvale, California

Residence of second inventor

Signature of second inventor Date of this assignment

Hiroaki ETO

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

Tokyo, Japan

Residence of third inventor

Signature of third inventor Date of this assignment

ADDITIONAL INVENTORS

Kanchan RANADE

Name of fourth inventor

Execution date of U.S. Patent Application

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Execution date of U.S. Patent Application

Tokyo, Japan

Residence of sixth inventor

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Date of this assignment