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To the Honorable Commissioner of Patents **101139369**

Attached original documents or copy thereof.

1. Name of conveying party(ies)  
  
Noboru SHIBUYA, Kaoru HAYASHI  
  
Additional 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 100-31, Japan  
  
Additional name(s) & address(es) attached?  Yes  No

3. Nature of conveyance:  
 Assignment  
 Security Agreement  
 Merger  
 Change of Name  
 Other  
  
Execution Date(s): August 17, 1999

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) 09/342,012 filed June 28, 1999  
  
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 & 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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for WILLIAM S. FROMMER      Gordon Kessler      September 3, 1999  
Name of Person Signing      Signature      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

INFORMATION PROCESSING APPARATUS

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 (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: 09/342,012, Filing Date: June 28, 1999.

This assignment executed on the dates indicated below.

Noboru SHIBUYA

Name of first or sole inventor Execution date of U.S. Patent Application  
Tokyo, Japan

Residence of first or sole inventor  
Noboru Shibuya August 17, 1999  
Signature of first or sole inventor Date of this assignment

Kaoru HAYASHI

Name of second inventor Execution date of U.S. Patent Application  
Kanagawa, Japan

Residence of second inventor  
Kaoru Hayashi August 17, 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