To the Commissioner of Patents and Trademarks:

1. Name of conveying party(ies):
   AI SUZUKI, TATSUO EGUCHI, YASUNIKO TERASHITA, YASUO NOMURA,
   YASUSHI MITAJIMA, YOSHIKAZU WATANABE, NOBUKI YAMAGUCHI,
   KUMIKO SASAKI and MAKOTO WILIMA

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

2. Name and address of receiving party(ies):
   Name: Sony Corporation
   Internal Address: 
   Street Address: 7-35, Kitashinagawa 6-Chome
   City, State and Zip: Shinagawa-ku, Tokyo, 141-0001 JAPAN

   Additional Name(s) & address(es) attached?  
   [ ] Yes   [X] No

3. Nature of Conveyance:
   [X] Assignment   [ ] Merger
   [ ] Security Agreement   [ ] Change of Name
   [ ] Other
   [ ] Execution Date: August 2, 2000; August 3, 2000, August 4, 
   2000 and August 12, 2000

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. 09/556,750
   B. Filed: April 21, 2000

   Additional numbers attached?  
   [ ] Yes   [X] No

5. Name and address of party to whom correspondence concerning document should be mailed:
   Name: Charles P. Sammut
   Internal Address: Limbach & Limbach L.L.P.
   Street Address: 2001 Ferry Building
   City, State, ZIP: San Francisco, California 94111
   Telephone: (415) 433-4750
   Facsimile: (415) 433-8716
   Attorney Docket No. SONY-T0473

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41): $40.00
   [X] Enclosed
   [ ] Charge any deficiencies in the enclosed fee to
   Deposit Account No. 12-1420
   [ ] Authorized to be charged to deposit account

8. Deposit account number: 12-1420

DO NOT USE THIS SPACE

   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.

   Charles P. Sammut, Reg. No. 28,901
   Name of Person Signing
   Signature
   August 17, 2000
   Date

Total number of pages including cover sheet, attachments and document: 4

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

Public burden reporting for this sample cover sheet is estimated to average about 30 minutes per document to be recorded, including time for reviewing the document and gathering the data needed, and completing and reviewing the sample cover sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Office of Information Systems, PK2-1000C, Washington, D.C. 20231, and to the Office of Management and Budget, Paperwork Reduction Project, (0651-0011), Washington, D.C. 20503

PATENTS\RECP FORM.MRG
Revised: 04/21/97
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 APPARATUS, METHOD AND MEDIUM FOR INFORMATION PROCESSING

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: 09/556,750, Filing Date: 4/21/2000

This assignment executed on the dates indicated below.

AI SUZUKI
Name of first or sole inventor

TOKYO, JAPAN
Residence of first or sole inventor

Signature of first or sole inventor

Execution date of U.S. Patent Application

2000.8.2
Date of this assignment
<table>
<thead>
<tr>
<th>Inventor Name</th>
<th>Name of inventor</th>
<th>Residence of inventor</th>
<th>Signature</th>
<th>Execution date of U.S. Patent Application</th>
<th>Date of this assignment</th>
</tr>
</thead>
<tbody>
<tr>
<td>TATSUO EGUCHI</td>
<td></td>
<td>KANAGAWA, JAPAN</td>
<td></td>
<td></td>
<td>2000/8/12</td>
</tr>
<tr>
<td>YASUHIKO TERASHITA</td>
<td></td>
<td>KANAGAWA, JAPAN</td>
<td></td>
<td></td>
<td>2000/8/8/0.3</td>
</tr>
<tr>
<td>YASUO NOMURA</td>
<td></td>
<td>KANAGAWA, JAPAN</td>
<td></td>
<td></td>
<td>2000/8/2000</td>
</tr>
<tr>
<td>YASUSHI MIYAJIMA</td>
<td></td>
<td>KANAGAWA, JAPAN</td>
<td></td>
<td></td>
<td>2000/8/13</td>
</tr>
</tbody>
</table>