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FORM PTO-1595

1-31-92

OMB No. 0651-011 (exp. 4/94)

100921477

HEET U.S. Department of Commerce  
Patent and Trademark Office

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

1. Name of conveying party(ies):

**MID 12-7-98**

Gong-san Yu,  
Tilman H.S.T.M. Kolks

Additional name(s) of conveying party(ies)

attached?  Yes  No

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

Name: Sony Corporation and Sony Electronics, Inc., jointly,

As to Sony Corporation:  
Street Address: 6-7-35 Katashinagawa,  
Shinagawa-Ku  
City: Tokyo Country: JAPAN

As to Sony Electronics, Inc.:  
Street Address: 1 Sony Drive  
City: Park Ridge State: NJ ZIP 07656-8003

Additional name(s) & address(es) attached?  Yes  No

3. Nature of conveyance:

Assignment  Merger

Security Agreement  Change of Name

Other \_\_\_\_\_

Execution Date: November 24, 1998

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)

B. Patent No.(s)

09/178,676

Additional numbers attached?  Yes  No

5. Name and address of party to whom correspondence concerning document should be mailed:

Thomas W. Humphrey  
Wood, Herron & Evans, L.L.P.  
2700 Carew Tower  
Cincinnati, Ohio 45202

6. Total number of applications and patents involved: 1

7. Total Fee (37 CFR 3.41)-----\$ 40.00

Enclosed

Authorized to be charged to deposit account

8. Deposit Account Number: 23-3000

(Attach duplicate copy of this page if paying by deposit account)

**DO NOT USE THIS SPACE**

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.

Thomas W. Humphrey  
Name of Person Signing

Signature & Reg. No.

34,353 December 3, 1998  
Date

Total number of pages comprising cover sheet, attachments, and document: 5

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

49240 08  
PATENT  
RECORDING DIVISION  
U.S. DEPARTMENT OF COMMERCE

## ASSIGNMENT

**WHEREAS**, I, as a below named inventor, residing at the address stated below 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 **SIMULATOR ARCHITECTURE** 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, and **SONY ELECTRONICS INC.**, a corporation organized under the laws of the state of Delaware, and having its principal place of business at 1 Sony Drive, Park Ridge, New Jersey 07656 (hereinafter "**ASSIGNEES**"), desire to acquire 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 **ASSIGNEES**, 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 **ASSIGNEES**, as the assignees 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 **ASSIGNEES** or its designee, as **ASSIGNEES** or its successors, assigns and legal representatives may from time to time present to me, 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, 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 **ASSIGNEES** thereof shall hereafter require and prepare at its own expense.

And I further agree that **ASSIGNEES** will, upon their 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: unknown

Filing Date: October 26, 1998

This assignment executed on the date(s) indicated below.



