

04-12-2004



FORM PTO-1595

RECORD

U.S. DEPARTMENT OF COMMERCE

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4604

PATENT 102219578

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):

YASUHIDE SHIMIZU  
SHIGEMITSU MURAYAMA  
YUKITOSHI YAMASHITA  
JUNJI TOYOMURA

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

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

Name: Sony Corporation

Internal Address:

7-35, Kitashinagawa 6-chome  
Shinagawa-ku, Tokyo 141, Japan

Street Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Additional Name(s) & Address(es) attached  Yes  No

19587 U.S. PTO  
10/818776



3. Nature of conveyance:

- Assignment  Merger
- Security Agreement  Change of Name
- Other

Execution Date March 18, 2004

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: 3/18/04

A. Patent Application No.(s)

B: Patent No.(s)

Attorney Docket No. 09792909-5850

10818776

Additional numbers attached?  Yes  No

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

**SONNENSCHN NATH & ROSENTHAL LLP**  
P.O. Box #061080  
Wacker Drive Station  
Sears Tower  
Chicago, IL 60606-1080  
Customer ID No. 26263

6. Total number of applications and patents involved

1

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

Enclosed

Authorized to be charged to American Express  
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deposit account or any additional fees

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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.

David R. Metzger

Name of Person Signing

Signature

April 6, 2004

Date

Total number of pages 3

Mail documents to be recorded and required cover sheet information to:

Commissioner for Patents  
Mail Stop Assignment Recordation Services  
P.O. Box 1450  
Alexandria, VA 22313-1450

04/08/2004 MBIZUNES 00000101 10818776

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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 COMPARATOR, SAMPLE-AND-HOLD CIRCUIT, DIFFERENTIAL AMPLIFIER, TWO-STAGE AMPLIFIER, AND ANALOG-TO-DIGITAL CONVERTER 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: \_\_\_\_\_, Filing Date: \_\_\_\_\_.

This assignment executed on the dates indicated below.

Yasuhide SHIMIZU

\_\_\_\_\_  
Name of first or sole inventor Execution date of U.S. Patent Application

Nagasaki, Japan

\_\_\_\_\_  
Residence of first or sole inventor

*Yasuhide Shimizu*

*March, 18, 2004*

\_\_\_\_\_  
Signature of first or sole inventor Date of this assignment

Shigemitsu MURAYAMA

Name of second inventor	Execution date of U.S. Patent Application
Nagasaki, Japan	
Residence of second inventor	
<i>Shigemitsu Murayama</i>	<i>March, 18, 2004</i>
Signature of second inventor	Date of this assignment

Yukitoshi YAMASHITA

Name of third inventor	Execution date of U.S. Patent Application
Nagasaki, Japan	
Residence of third inventor	
<i>Yukitoshi Yamashita</i>	<i>March, 18, 2004</i>
Signature of third inventor	Date of this assignment

Junji TOYOMURA

Name of fourth inventor	Execution date of U.S. Patent Application
Nagasaki, Japan	
Residence of fourth inventor	
<i>Junji Toyomura</i>	<i>March, 18, 2004</i>
Signature of fourth inventor	Date of this assignment

Name of fifth inventor	Execution date of U.S. Patent Application
Residence of fifth inventor	
Signature of fifth inventor	Date of this assignment