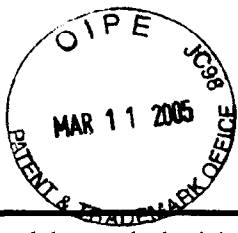


W. Neenan
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Atty Docket No.: 238016US6PCT/hse

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Hirohito KONDO, Tamoki SHIONO, Hiroshi NAGATANI, Yosuke KANEDA and Takaaki SAKAI

2. Name and address of receiving party(ies):
Name: Sony Corporation
Address: 7-35, Kitashinagawa 6-Chome, Shingawa-Ku, Tokyo, Japan

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

3. Nature of Conveyance:
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Additional name(s) and address(es) attached? Yes No

4. Application number(s) or patent number(s):
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A. Patent Application No.(s)
10/450,041

B. Patent No.(s)

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Bradley D. Lytle
Name of Person Signing

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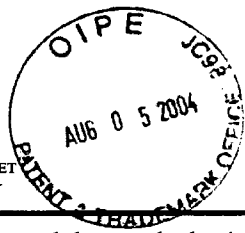
PATENT
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8/5/04

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1. Name of conveying party(ies):

Hirohito KONDO Takaaki SAKAI
Tomoki SHIONO
Hiroshi NAGATANI
Yosuke KANEDA

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

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

Name: Sony Corporation
Address: 7-35, Kitashinagawa 6-chome
Shinagawa-ku, Tokyo
Japan

3. Nature of Conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other

Execution Date: June 4, 4, 4, 9, 4, 2004

~~08-11-2004~~



~~102810862~~

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

4. Application number(s) or patent number(s):

This document is being filed together with a new application

A. Patent Application No.(s)

10/450,041

B. Patent No.(s)

Additional numbers attached? Yes No

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

Customer Number

22850

Tel. (703) 413-3000
Fax. (703) 413-2220

6. Total applications and patents involved:

7. Total fee (37 CFR 3.41): \$40.00

- Enclosed
- Authorized to be charged to deposit account

8. Deposit account number: 15-0030
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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.

Gregory J. Maier

Name of Person Signing

Signature

Aug. 5 2004

Date

Surinder Sachar

Registration No. 34,423

Registration Number: 25,599

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8/05 2004 BETHLEHEM 00000074 10450041

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PATENT
REEL: 016366 FRAME: 0290

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
INFORMATION PROCESSING APPARATUS AND PROGRAM

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: PCT/JPO2/10574, Filing Date: October 11, 2002.

This assignment executed on the dates indicated below.

<u>Hirohito KONDO</u>	<u>June 4, 2004</u>
Name of first or sole inventor	Execution date of U.S. Patent Application
<u>Kanagawa, Japan</u>	
Residence of first or sole inventor	
<u>Hirohito Kondo</u>	<u>June 4, 2004</u>
Signature of first or sole inventor	Date of this assignment

Tomoki SHIONO
Name of second joint inventor

June 4, 2004
Execution date of U.S. Patent Application

Kanagawa, Japan
Residence of second joint inventor

Tomoki Shiono
Signature of second joint inventor

June 4, 2004
Date of this assignment

Hiroshi NAGATANI
Name of third joint inventor

June 4, 2004
Execution date of U.S. Patent Application

Tokyo, Japan
Residence of third joint inventor

Hiroshi Nagatani
Signature of third joint inventor

June 4, 2004
Date of this assignment

Yosuke KANEDA
Name of fourth joint inventor

July 9, 2004
Execution date of U.S. Patent Application

Kanagawa, Japan
Residence of fourth joint inventor

Yosuke Kaneda
Signature of fourth joint inventor

July 9, 2004
Date of this assignment

Takaaki SAKAI
Name of fifth joint inventor

June 4, 2004
Execution date of U.S. Patent Application

Tokyo, Japan
Residence of fifth joint inventor

Takaaki Sakai
Signature of fifth joint inventor

June 4, 2004
Date of this assignment