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FORM PTO-1984

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Patent and Trademark Office

JCS973 U.S. PTO
29/165145
08/07/02

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

1. Name of conveying party(ies)

1) Hitoshi TAKAHASHI

08/07/02

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

2. Name and address of receiving party(ies)

Name: SONY CORPORATION

Internal Address:

Street Address: 7-35, Kitashinagawa 6-chome, Shinagawa-ku

City: Tokyo 141-0001 JAPAN

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

3. Nature of conveyance:

Assignment Merger
 Security Agreement Change of Name

Other _____

Execution Date: 1) July 31, 2002

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

If the document is being filed together with a new application, the execution date of the application is July 31, 2002

29/165145

Additional numbers attached No

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

Name: RADER, FISHMAN & GRAUER

Internal Address: Suite 501

Street Address: 1233 20th Street, NW

City: Washington, D.C. Zip: 20036

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:
18-0013

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

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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.

Robert S. Green Reg. No. 41,800

Name of Person Signing

Signature

August 7, 2002

Date

Total number of pages comprising cover sheet

08/14/2002 DBYRNE 00000073 180013 29165145

01 FC:581 40.00 CH

PATENT
REEL: 013179 FRAME: 0438

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

ANTENNA FOR WIRELESS COMMUNICATION

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 ASSIGNEES) 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 Ten Dollar (\$10.00), 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 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 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 ASSIGNEES or its designee, as ASSIGNEES 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;

