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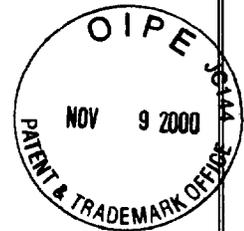
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U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

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

1. Name of conveying party(ies)  
**Sony Corporation**  
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, JAPAN**  
**Robert J. McEliece**  
**1086 Armada Drive**  
**Pasadena, California**



3. Nature of conveyance:  
 Assignment  
 Security Agreement  
 Merger  
 Change of Name  
 Other  
Execution Date: September 7, 2000

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

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) **09/310,161** B. Patent No.(s)  
Additional numbers attached?  Yes  No

5. Name and address of party to whom correspondence concerning document should be mailed:  
Name: **WILLIAM S. FROMMER, ESQ.**  
Internal Address: **FROMMER LAWRENCE & HAUG LLP.  
745 FIFTH AVENUE**  
Street Address:  
City: **NEW YORK** State: **NY** Zip: **10151**

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 #50-0320  
8. Deposit account number: **50-0320**  
(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.

**WILLIAM S. FROMMER, ESQ.**

**November 6, 2000**

Name of Person Signing

Signature

Total number of pages including cover sheet, attachments, and document): **3**

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car0741

**PATENT**  
**REEL: 011281 FRAME: 0817**

**ASSIGNMENT**

WHEREAS **SONY CORPORATION** (hereinafter "Assignor"), a Japanese corporation having its principal place of business at 7-35 Kitashinagawa, 6-chome, Shinagawa-ku, Tokyo 141, Japan, is the exclusive owner of the entire right, title and interest in and to the inventions and patents set out in Serial No. 09/310,161 filed April 30, 1999, entitled: TURBO CODING, DECODING DEVICES AND TURBO CODING, DECODING METHODS, by virtue of an assignment thereof from the inventors, recorded in the United States Patent and Trademark Office on November 1, 1999 at Reel 010355, Frame 0010;

NOW, THEREFORE, for good and valuable consideration, receipt and sufficiency of which hereby are acknowledged, Assignor hereby assigns and transfers unto **ITSELF** and unto **ROBERT J. McELIECE**, an individual residing at 1086 Armada Drive, Pasadena, California, (hereinafter referred to as "Joint Assignees") their successors and assigns, the entire right, title and interest in and to said inventions and patents, and in and to any and all patents, reexaminations, reissues or extensions thereof, of the United States of America and countries foreign thereto, to be held by the Joint Assignees, and enjoyed as fully as they would have been by Assignor had this assignment and transfer not been made;

Assignor authorizes and requests the Commissioner of Patents and Trademarks to issue any and all Letters Patent of the United States for said inventions resulting from the aforesaid application to **SONY CORPORATION** and **ROBERT J. McELIECE**, as Joint Assignees.

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In witness whereof, Assignor has caused this assignment to be executed on the  
day and year set forth below.

BY:   
Mr. Kenichiro Nakata  
Its Authorized Representative

Date:     *Sep. 7. 2000*