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FORM PTO-1595

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

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| <p>1. Name of conveying party(ies): <u>Ning Lu</u> <u>Chi Wah Kok</u></p> <p>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> | <p>2. Name and address of receiving party(ies): Name: <u>Sony Corporation</u> Internal Address: _____ _____ _____</p> |
| <p>3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other _____</p> <p>Execution Date: <u>11/20/98</u></p> | <p>Street Address: <u>7-35 Kitashinagawa, 6 Chome</u> <u>Shinagawa-Ku</u> City <u>Tokyo</u> State <u>Japan</u> ZIP _____</p> <p>Additional name(s) & address(es) attached? <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> |

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| <p>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: _____</p> <table border="1"> <tr> <td data-bbox="116 787 803 997"> <p>A. Patent Application No.(s) <u>09/177,781</u></p> </td> <td data-bbox="803 787 1526 997"> <p>B. Patent No.(s)</p> </td> </tr> </table> <p>Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> | | <p>A. Patent Application No.(s) <u>09/177,781</u></p> | <p>B. Patent No.(s)</p> |
| <p>A. Patent Application No.(s) <u>09/177,781</u></p> | <p>B. Patent No.(s)</p> | | |

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| <p>5. Name and address of party to whom correspondence concerning document should be mailed: Name: <u>BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN, LLP</u> Internal Address: _____ Street Address: <u>12400 Wilshire Blvd.</u> <u>Seventh Floor</u> City: <u>Los Angeles</u> State: <u>CA</u> ZIP: <u>90025</u></p> | <p>6. Total number of applications and patents involved: 1</p> <p>7. Total fee (37 CFR 3.41).....\$ <u>40.00</u> <input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Authorized to be charged to deposit account</p> <p>8. Deposit account number: <u>02-2666</u> (Attach duplicate copy of this page if paying by deposit account)</p> |
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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.

Glenn E. Von Tersch, Reg No 41,364 *Glenn E. Von Tersch* 12/22/98
Name of Person Signing Signature Date

Total number of pages comprising cover sheet, attachments, and document: 4

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

Attachment to Patent Recordation Cover Sheet

Attorney Docket No.: 80398.P166

Filed: October 22, 1998

Title: METHOD AND APPARATUS FOR DESIGNING A CODEBOOK FOR
ERROR RESILIENT DATA TRANSMISSION

Additional Assignee:

Sony Electronics, Inc.
1 Sony Drive
Park Ridge, New Jersey 07656

No.: 80398.P166 (For Execution After Filing Patent Application)

In consideration of good and valuable consideration, the receipt of which is hereby acknowledged, We,

the undersigned, Ning Lu and Chi Wah Kok

hereby sell, assign, and transfer jointly to Sony Corporation

a corporation of Japan, having a principal place of business at

7-35 Kitashinagawa, 6-Chome, Shinagawa-ku, Tokyo, Japan; and

Sony Electronics, Inc.

a corporation of Delaware, having a principal place of business at


1 Sony Drive, Park Ridge, New Jersey 07656, ("Assignee"),


and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States and all foreign countries, in and to any and all improvements that are disclosed in the application for the United States patent that has been executed by the undersigned prior hereto or concurrently herewith on the dates indicated below and is entitled METHOD AND APPARATUS FOR DESIGNING A CODEBOOK FOR ERROR RESILIENT DATA TRANSMISSION

and in and to said application and all divisional, continuing, substitute, renewal, reissue, and all other patent applications that have been or shall be filed in the United States and all foreign countries on any of said improvements; and in and to all original and reissued patents that have been or shall be issued in the United States and all foreign countries on said improvements; and in and to all rights of priority resulting from the filing of said United States application;

agree that said Assignee may apply for and receive a patent or patents for said improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said improvements; execute all rightful oaths, assignments, powers of attorney, and other papers; communicate to said Assignee, its successors, assigns, and representatives all facts known to the undersigned relating to said improvements and the history thereof; and generally assist said Assignee, its successors, assigns, or representatives in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements, and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns, and legal representatives; and

covenant with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Date: Nov. 20th, 1998 
Name: Ning Lu

Date: 11/20, 1998 
Name: Chi Wah Kok

Date: _____, 19____
Name: _____

Date: _____, 19____
Name: _____

Date: _____, 19____
Name: _____

Date: _____, 19____
Name: _____

State of: _____ }
County of: _____ } SS. Assignment Document Return Address:
BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP
12400 Wilshire Blvd., Seventh Floor
Los Angeles, California 90025-1026
(408) 720-8598

On this _____ day of _____ 19 __, before me, _____,
the undersigned Notary Public, personally appeared _____

[] personally known to me [] proved to me on the basis of satisfactory evidence to
be the person(s) whose name(s) subscribed to the within instrument, and
acknowledged that executed it.
WITNESS my hand and official seal.

Notary's Signature

Notary's Signature