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U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

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Case Docket No. 50R4652/1593

TO THE HONORABLE COMMISSIONER OF PATENTS & TRADEMARKS:  
PLEASE RECORD THE ATTACHED ORIGINAL DOCUMENTS OR COPY THEREOF

1. Name of conveying party:  Klaus Zimmermann  Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		2. Name and address of receiving party(ies): Name: Sony Corporation  Internal Address:  Street Address: 6-7-35 Kitashinagawa 6-Chome, Shinagawa-Ku City: Tokyo State: ZIP: 141-0001 Country: Japan  Additional name(s) & address(es) attached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
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  Execution Date: January 15, 2002			
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:  Date: January 15, 2002			
A. Patent Application No(s).:  Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		B. Patent No(s).:  Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Name and address of party to whom correspondence concerning document should be mailed:  Name: Gregory J. Koerner Simon & Koerner, LLP Street Address: 10052 Pasadena Avenue, Suite B  City: Cupertino State: CA ZIP: 95014		6. Number of applications and patents involved: [ 1 ]  7. Total fee (37 CFR 3.41): \$ 40.00 <input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Authorized to be charged to deposit account  8. Deposit account number: (Attach duplicate copy of this page if paying by deposit account)	
02/08/2002 WARRHAM1 00000018 10066222 04 15:581 40.00		DO NOT USE THIS SPACE	
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. Koerner, Reg. No. 38,519 Name of Person Signing  Signature  Date 1/15/02  Total number of pages including cover sheet, attachments and document: [7]			

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Washington, D.C. 20231PATENT  
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**ATTACHMENT TO (BOX No. 2) NAME AND ADDRESS OF RECEIVING PARTIES**

NAME: Sony Electronics Inc.

STREET: 1 Sony Drive

CITY: Park Ridge

STATE: New Jersey

ZIP CODE: 07656

**ASSIGNMENT**

For good and valuable consideration, the receipt of which is hereby acknowledged, I, the undersigned, **Klaus Zimmermann**, do hereby sell, assign, and transfer to **Sony Corporation**, a Japanese corporation with offices at 6-7-35 Kitashinagawa 6-Chome, Shinagawa-Ku, Tokyo, 141-0001, Japan, and to **Sony Electronics Inc.**, a Delaware corporation with offices at 1 Sony Drive, Park Ridge, New Jersey 07656 ("Assignees"), their 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 which are disclosed in the application for United States Letters Patent, which has been executed by the undersigned concurrently herewith, and is entitled:


**"System And Method For Efficiently Performing A Storage Management Procedure"**

and in and to said application and all divisional, continuing, substitute, renewal, reissue, and all other applications for Letters Patent which 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 which 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; and

Agree that said Assignees may apply for and receive Letters Patent for said improvements in their own names; and that, when requested, without charge to, but at the expense of, said Assignees, their 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 Assignees, their successors, assigns, and representatives, all facts known to the undersigned relating to said improvements and the history thereof; and generally do everything possible which said Assignees, their successors, assigns or representatives shall consider desirable for aiding 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 Assignees, their successors, assigns and legal representatives; and

Covenant with said Assignees, their 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: JAN 15, 2002

Name:   
Klaus Zimmermann