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To the Commissioner of Patents and Trademarks. Please recor	d the attached original documents or copy thereof.
 Name of conveying party(ies): 	2. Name and address of receiving party(les):
MITSURU IDA, KOICHI NUMATA, AND TAIZO OGAWA	Name: <u>Sony Corporation</u>
	Internal Address:
Additional name(s) of conveying party(ies) attached? Yes X No	Street Address: 7-35, Kitashinagawa 6-Chome
Yes X No	City, State and Zip: Shinagawa-ku, Tokyo 141-0001, JAPAN
3. Nature of Conveyance:	Additional Name(s) & address(es) attached?
X Assignment	Yes X No
Security Agreement Change of Name Other	
Execution Date: <u>June 10, 1999</u>	Ce. 18.29
 Application number(s) or patent number(s): 	
If this document is being filed together with a new app	olication, the execution date of the application is:
A. Patent Application No. 09/294,845 B. Filing Date: April 20. 1999	B. Patent No.(s)
Additional numbers attached?	Yes X No
 Name and address of party to whom correspondence concer document should be mailed: 	rning 6. Total number of applications and patents involved: 1
Name: Charles P. Sammut	7. Total fee (37 CFR 3.41):\$ 40.00
Internal Address: Limbach & Limbach L.L.P.	Enclosed Charge any deficiencies in the enclosed fee to
Street Address: 2001 Ferry Building City, State, ZIP: San Francisco, California 94111 Telephone: (415) 433-4150	Deposit Account No. 12-1420 Authorized to be charged to deposit account
Facsimite: (415) 433-8716	8. Deposit account number: 12-1420
Attorney Docket No. SONY-P9454	
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9. Statement and signature.	
To the best of my knowledge and belief, the foregoing information is t	true and correct and any attached copy is a true copy of the original document.
Mark A. Dalla Valle, Reg. No. 34,147	June 15, 1999
Name of Person Signing Total number	Signature Date of pages including cover sheet, attachments and document: 3
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Docket Number: SONY-P9454

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 DISK LOADING APPARATUS 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: 09/294, 845 , Filing Date: 4/20/1999 This assignment executed on the dates indicated below. MITSURU IDA Name of first or sole inventor Execution date of U.S. Patent Application SAITAMA, JAPAN Residence of first or sole inventor

Signature of first or sole inventor

PATENT REEL: 010040 FRAME: 0167

KOICHI NUMATA	
Name of second inventor	Execution date of U.S. Patent Application
TOKYO, JAPAN	
TOKYO, JAPAN Residence of second inventor	
Signature of second inventor	Date of this assignment
Signature of second inventor	Date of this assignment
TAIZO OGAWA	
Name of third inventor	Execution date of U.S. Patent Application
KANAGAWA, JAPAN	
Residence of third inventor	
Signature of third inventor	Jun. 10. 1998
Signature of third inventor	Date of this assignment
Name of fourth inventor	Execution date of U.S. Patent Application
Residence of fourth inventor	
Signature of fourth inventor	Date of this assignment
Name of fifth inventor	Execution date of U.S. Patent Application
Residence of fifth inventor	
Signature of fifth inventor	Date of this assignment

PATENT REEL: 010040 FRAME: 0168

RECORDED: 06/15/1999