FORM PTO-1595 1-31-92	DEPARTMENT OF COMME. Patent and Trademark O
To the Honorable Commissioner of Patents and Trademarks. Plea	
1. Name of conveying party(ies):	100749459
Hisashi Hanzawa and Hong-Seok Yang	
	Name: Sony Corporation Internal Address:
Additional name(s) of conveying party(ies) attached? Yes No	methat Address.
Sature of Conveyance	Street Address: 7-35 Kitashinagawa 6-chome
Assament Merger	Shinagawa-ku, Tokyo, Japan
	City State ZIP
Secrity Agreement	
ner	Additional name(s) & address(es) attached? Yes X No
June 8, 1998	roomonin name(s) & diddess(es) andened: ————————————————————————————————————
4 Application number(s) or patent number(s):	
If this document is being filed together with a new application, the execution da	te of the application is:
A. Patent Application No.(s) 08/944,958	B. Patent No.(s)
00/244,2,16	
Additional numbers atta	ached? Yes X No
Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: 1
concerning accument should be mande.	
Name: Jay H. Maioli	
Internal Address: Cooper & Dunham LLP	7. Total fee (37 CFR 3 41):
	X Enclosed
	Authorized to be charged to deposit account
Street Address: 1185 Avenue of the Americas	8. Deposit account number:
	03-3125 (Attach
City: New York State: New York ZIP 10036	duplicate copy of this page if paying by deposit account)
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9. Statement and signature.	SE THIS SPACE
To the best of my knowledge and belief, the foregoing in the original document.	formation is true and correct and any attached copy is a true cop
the original abcument.	
Jay H. Maioli	June 18, 1998
Name of Person Signing Signature	Date
/1998 SBOVIS 00000009 08944958	Total Number of pages comprising cover sheet:
2566 MB No. 0651-0011 (exp. 4/94) 40.0€ €	rotal Number of pages comprising cover sheet.
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reviewing the document and gathering the data needed, and completing	g and reviewing the sample cover sheet. Send comments regarding
	of Information Systems, PK2-1000C, Washington, D.C. 20231, and to

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 MAGNETIC RECORDING AND/OR PLAYBACK 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 at6-7-35 Kitashinagawa, Shinagawa-Ku, Tokyo, Japan (hereinafter reference 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 Fatent of the United States and countries foreign thereof;

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 thereof;

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 08/944,958 , Filing Date October 07, 1997

This assignment executed on the dates indicated below.

Hisashi Hanzawa	June 8, 1998
Name of first or sole inventor	Execution date of U.S. Patent Application
Tokyo, Japan	
Residence of first or sole inventor	
Hisashi Hanzawa Signature of first or sole inventor	June 8, 1998
Signature of first or sole inventor	Date of this assignment

S97P890US00

Hong-Seok Yang	June 8, 1998
Name of second inventor	Execution date of U.S. Patent Application
Tokyo, Japan Residence of second inventor	
Hong-seok Yang Signature of second inventor	June 8. 1998
Signature of second inventor	Date of this assignment

PATENT REEL: 9263 FRAME: 0453