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FLH Ref. No.: 450100-4232

1 V		WA HARM MIN JAME	U.S. DEPARTMENT OF	COMMERCE
	10072722	<u> </u>	Patent and Tradema	rk Office
To the Honorable Commissioner of Patents a	• = -		nal documents or copy the	ereof.
1. Name of conveying party(ies)	1 _	ame and address of rece		
TAKAO TAKAHASHI, TOSHIYA AKIBA, NAOHISA ARAI, MASAMI TOMITA, MASASHI OHTA, NOBORU MURABAYASHI, TARO SUITO		7-35 Kitas	CORPORATION hinagawa 6-chome Tokyo 100-31, Japan	
Additional name(s) of conveying party(ies	s) attached? Additi	onal name(s) & address	s(es) attached? Yes _	<u>x</u> No
3. Nature of conveyance:				
X Assignment Security Agreement Merger Change of Name Other				
Execution Date(s): May 12 and May 16, 1998				
4. Application number(s) or patent number(s)	:			
If this document is being f the application is:	iled together with a new	application, the execu	tion date of	
A. Patent Application No.(s) <u>08/988,52</u>	5 filed <u>December 10, 19</u>	<u>97</u>		
Addit	ional numbers attached?	Yes X No		
5. Name and address of party to whom corresp concerning document should be mailed:		otal number of applica atents involved		_1_
Name: WILLIAM S. FROMMER	7. To	otal fee (37 CFR 3.41)		\$ 40.00
Internal Address: FROMMER LAWRENCE & HAUG LLP	1		d to be charged to	-
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TRE WILLIAM S. FROMMER	Todor R	2/	May 27, 1998	
Name of Person Signing	Signature		Date number of pages including attachments, and documen	
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ASSIGNMENT

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WHEREAS, I, as below named inventors, residing at the addresses stated next to our names, 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

APPARATUS AND METHOD FOR INFORMATION RECORDING AND REPRODUCTION

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 referred to 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 NOW INEXEFURE, 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

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: 08/988,525, Filing Date: December 10, 1997.

This assignment executed on the dates indicated below.

TAKAO TAKAHASHI	May 12, 1998		
Name of first or sole inventor	Execution date of U.S. Patent Application		
Tokyo. Japan			
Residence of first or sole inventor Takao Takahashu	May 12. 1998		
Signature of first or sole inventor	Date of this assignment		
TOSHIYA AKIBA	MAY 12, 1998		
Name of second inventor	Execution date of U.S. Patent Application		
Kanagawa, Japan			
Residence of second inventor Joshuna Alaiba	MAY 12. 1998		
Signature of second inventor	Date of this assignment		
NAOHISA ARAI	may 16, 1998		
Name of third inventor	Execution date of U.S. Patent Application		
Kanagawa, Japan			
Residence of third inventor Raskisa Wrai	may 16, 1948		
Signature of third inventor	Date of this assignment		

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MASAMI TOMITA	may 12, 1998	
Name of fourth inventor	Execution date of U.S. Patent Application	
Chiba, Japan		
Residence of fourth inventor Masami Tomita	May /2, (998) Date of this assignment	
Signature of fourth inventor	Date of thes assignment	
MASASHI OHTA	May 12, 1998	
Name of fifth inventor	Execution date of U.S. Patent Application	
Tokyo. Japan		
Residence of fifth inventor Masashi Chta	may 12 , 1998	
Signature of fifth inventor	Date of this assignment	
NOBORU MURABAYASHI	Execution date of U.S. Patent Application	
Name of sixth inventor	Execution date of U.S. Patent Application	
Saitama, Japan		
Residence of sixth inventor nurabayashi	Date of this assignment	
Signature of sixth inventor	Date of this assignment	
TARO SUITO	may 12. 1998	
Name of seventh inventor	Execution date of U.S. Patent Application	
Kanagawa, Japan		
Residence of seventh inventor Tincus Suuto	may 12. 1998	
Signature of seventh inventor	Date of this assignment	