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Makoto NODA	7-35 Kitas	CORPORATION hinagawa 6-chome tokyo 141-0001, Japan	
Additional name(s) of conveying party(ies) att	ched? Additional name(s) & address	s(es) attached?Yes _ <u>.K</u> _ No	
3. Nature of conveyance:			
X Assignment Sccurity Agreement Merger Change of Name Other	The second secon		
Execution Date(s): November 28, 2000			
the application is: A. Patent Application No.(s) <u>09/655,434</u> fil	ogether with a new application, the executed <u>september 5, 2000</u>	tion date of	
 Name and address of party to whom correspondence concerning document should be mailed: 	6. Total number of applica patents involved		
Name: WILLIAM S. FROMMER	7. Total fee (37 CFR 3.41)	\$ 40.00	
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Soop(018(490)

ASSIGNMENT

FLH File No. 450100-0268

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

CODING APPARATUS AND METHOD, DECOGING APPARATUS AND METHOD, AND RECORDING MEDIUM

for which application for Lotters 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 141, 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 of 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 right; under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, and to any other benefits accruing or to accrue to me with respect to the filing of applications for patents of 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 perfinent 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: 09/655,434, Filing Date: September 5, 2000.

This assignment executed on the dates indicated below.

Makolo NODA		
Name of first or sole inventor	Execution date of U.S. Patent Application	
Tokyo. Japan		
Residence of first or sole inventor Mahatir Maha	Nov. 28, 2000	
Signature of first or sole inventor	Date of this assignment	
Name of second inventor	Execution date of U.S. Patent Application	
Residence of second inventor		
Signature of second inventor	Date of this assignment	
Name of third inventor	Execution date of U.S. Patent Application	
Residence of third inventor		
Signature of third inventor	Date of this assignment	

I/SONY/02684/FLRCMP.COR (WSF:sba)

RECORDED: 12/12/2000

PATENT REEL: 011487 FRAME: 0301