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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Tomoo Takada	09/08/2004
Kenichi Kawase	09/09/2004
Isamu Konishiike	09/09/2004
Yukiko lijima	09/10/2004
Yukio Miyaki	09/15/2004

RECEIVING PARTY DATA

Name:	Sony Corporation	
Street Address:	7-35 Kitashinagawa 6-Chome	
Internal Address:	Shinagawa-Ku	
City:	Tokyo	
State/Country:	JAPAN	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	10884734

CORRESPONDENCE DATA

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NAME OF SUBMITTER: Robert J. Depke

Total Attachments: 2

PATENT REEL: 015165 FRAME: 0186

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> PATENT REEL: 015165 FRAME: 0187

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роске	t inumber:	075834.00518	

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

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for which an 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, do hereby assign, sell and transfer unto the said ASSIGNEE, its successors, assigns, the entire right, title and interest in the said invention, said application, including any divisions and continuations as well as any reissues and reexaminations 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 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 No. 10/884,734 Filing Date: July 2, 2004

This assignment executed on the dates indicated below.

Tomoo TAKADA	
Name of first or sole inventor	Execution date of U.S. Patent Application
Fukushima, Japan Residence of first or sole inventor	
Jonno Johada	Neptember 8, 2004
Signature of First or sole inventor	Date of this Assignment

Kenichi KAWASE	
Name of second inventor	
Fukushima, Japan Residence of second inventor	Execution date of U.S. Patent Application
Kenichi Kanase Signature of second inventor	September 9, 2004 Date of this Assignment
Isamu KONISHIIKE Name of third inventor	·
Fukushima, Japan Residence of third inventor	Execution date of U.S. Patent Application
Signature of third inventor	September 9, 2004
Yukiko IIJIMA Name of fourth inventor	Date of this Assignment
Fukushima, Japan Residence of fourth inventor	Execution date of U.S. Patent Application
Yukiko Dijima	September 10, 2004
Signature of fourth inventor	Date of this Assignment
Yukio MIYAKI	
Name of fifth inventor Kanagawa Japan	Execution date of U.S. Patent Application
Kanagawa, Japan Residence of fifth inventor Yuki o Miyaki	September 15, 2004
Signature of fifth inventor	Date of this Assignment
Name of sixth inventor	Execution date of U.S. Patent Application
Residence of sixth inventor	
Signature of sixth inventor	Date of this Assignment
Name of seventh inventor	Execution date of U.S. Patent Application
Residence of seventh inventor	
Signature of seventh inventor	Date of this Assignment

RECORDED: 09/23/2004

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