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	s: Please record the attached original documents or copy thereof.
Name of conveying party(ies):	2. Name and address of receiving party(ies)
	Name: Sony Corporation
Yoshiharu Nakajima Yoshitoshi Kida	Internal Address:
TOSIIIOSIII Kida	Internal Address:
Additional name(s) of conveying party(ies) attached? 📮 Yes 🛂 No	
3. Nature of conveyance:	177 Ut
🗖 Assignment 🖵 Merger	Street Address: 7-35 Kitashinagawa
Security Agreement Ghange of Name	\text{\tin}}\text{\tin}\text{\te}\tint{\texi}\\ \text{\text{\text{\text{\texi}\tinz{\text{\texi}\text{\text{\ti}\text{\text{\text{\text{\text{\texi}\text{\texi}\text{\text{\text{\text{\text{\text{\text{\texi}\text{\texi}\text{\text{\texit}
☐ Other	6-Chome, Shinagawa-ku, Tokyo, Japan-
	City:State:Zip:
Execution Date: August 4, 2003	
4. Application number(s) or patent number(s):	Additional name(s) & address(es) attached? 📮 Yes
	attached? 📮 Yes 🔼 No
<ol><li>Name and address of party to whom correspondence concerning document should be mailed:</li></ol>	
Name: Robert J. Depke	7. Total fee (37 CFR 3.41)\$ 40.00
Internal Address: Holland & Knight LLC	Enclosed
	Authorized to be charged to deposit accoun
131 South Dearborn Street	8. Deposit account number:
Street Address: 131 South Dearborn Street	
30th Floor	8. Deposit account number:  50-1794
30th Floor  City: Chicago State: IL Zip: 60603	8. Deposit account number:  50-1794  (Attach duplicate copy of this page if paying by deposit account number:
30th Floor  City: Chicago State: IL Zip: 60603  DO NOT US	8. Deposit account number:  50-1794
30th Floor  City: Chicago State: IL Zip: 60603  DO NOT US  9. Statement and signature.  To the best of my knowledge and belief, the foregoing is a true copy of the original document.  Robert-J. Depke  Name of Person Signing	8. Deposit account number:  50-1794  (Attach duplicate copy of this page if paying by deposit account number:  E THIS SPACE  Information is true and correct and any attached copy of this page if paying by deposit account number:  Date
30th Floor  City: Chicago State: IL Zip: 60603  DO NOT US  9. Statement and signature.  To the best of my knowledge and belief, the foregoing is a true copy of the original document.  Robert-J. Depke  Name of Person Signing  Total fumber of pages including contents.	8. Deposit account number:  50-1794  (Attach duplicate copy of this page if paying by deposit account number:  E THIS SPACE  Information is true and correct and any attached copy  8 12 0

PATENT REEL: 014419 FRAME: 0786

## 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

## **DISPLAY APPARATUS AND PORTABLE TERMINAL**

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 filling 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. 10/442,351 Date: May 21, 2003

This assignment executed on the dates indicated below.

Yoshiharu NAKAJIMA	
Name of first or sole inventor	Execution date of U.S. Patent Application
Kanagawa, Japan	
Residence of first or sole inventor	
Yoshiharu nakajima	August 4, 2003
Signature of First or sole inventor	Date of this Assignment

PATENT REEL: 014419 FRAME: 0787

Yoshitoshi KIDA Name of second inventor Execution date of U.S. Patent Application Kanagawa, Japan Residence of second inventor Yoshitoshi Kida. Signature of second inventor August 4, 2003. Date of this Assignment Name of third inventor Execution date of U.S. Patent Application Residence of third inventor Date of this Assignment Signature of third inventor Execution date of U.S. Patent Application Name of fourth inventor Residence of fourth inventor Signature of fourth inventor Date of this Assignment Name of hith inventor Execution date of U.S. Patent Application Residence of fifth inventor Signature of fifth inventor Date of this Assignment Execution date of U.S. Patent Application Name of sixth inventor Residence of sixth inventor Date of this Assignment Signature of sixth inventor Name of seventh inventor Execution date of U.S. Patent Application Residence of seventh inventor Date of this Assignment Signature of seventh inventor CHI1 #216453 v17

RECORDED: 08/25/2003

PATENT REEL: 014419 FRAME: 0788