10-23-2001	
FORM PTO-1984	IEET U.S. DEPARTMENT OF COMMER
SON-2128 ( OCT 1 1 2001	Patent and Trademark Office
To the Honorable Commissioner of Patentrand Trademarks: Please r	ecord the attached original documents or copy thereof.
1. Name of conveying party(ies) ADE MATE	2. Name and address of receiving party(ies)
(1) Takuya MAKINO	Name: SONY CORPORATION
Additional name(s) of conveying party(ies) attached No.	Internal Address:
3. Nature of conveyance:	Street Address: 7-35 KITASHINAGAWA 6-CHOME SHINAGAWA-KU
⊠ Assignment □ Merger	City: TOKYO, JAPAN
□ Security Agreement □ Change of Name	Additional name(s) & address(es) attached
Execution Date: (1) 10/04/01	
4. Application number(s) or patent number(s): 09/881,850	
If the document is being filed together with a new application, the	execution date of the application
<ol> <li>Name and address of party to whom correspondence concerning document should be mailed:</li> </ol>	6. Total number of applications and patents involved: 1
Name: Ronald P. Kananen, Esq.	7. Total fee (37 CFR 3.41) \$ 40.00
Internal Address: RADER, FISHMAN & GRAUER	□ Enclosed
Suite 501	Authorized to be charged to Deposit Account
Street Address: 1233 20 <sup>th</sup> Street, NW	8. Deposit account number:
City: Washington, D.C. Zip: 20036	18-0013 (Attach duplicate copy of this page if paying by deposit account
DO NOT USE THIS SPACE         9. Statement and signature. To the best of my knowledge and belief, the foregoing information document.         Ronald P. Kananen Name of Person Signing Total number of pages comprising cover sheet         P2/2001 DBYRNE       00000140 180013         09881850         FC:581       40.00 CH	a is true and correct and any attached copy is a true copy of the origina <u>October 11, 2001</u> Date

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## ASSIGNMENT

Docket Number: SON-2128

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 OPTICAL SWITCHING ELEMENT, AND SWITCHING DEVICE AND IMAGE DISPLAY APPARATUS EACH USING THE OPTICAL SWITCHING ELEMENT

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 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, 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 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: <u>09/881,850</u>. Filing Date: <u>June 18, 2001</u>.

This assignment executed on the dates indicated below.

TAKUYA MAKINO

Name of first or sole inventor

CHIBA, JAPAN

Residence of first or sole inventor

Takuya makino

Signature of first or sole inventor

Execution date of U.S. Patent Application

Oct. 4, 200/

)ate of this assignment.

PATENT REEL: 012262 FRAME: 0857

**RECORDED: 10/11/2001**