AUG 15 2012 W

Form PTO-1595 (Rev. 03-11)

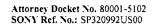
OMB No. 0651-0027 (exp. 03/31/2012)

RECORDATION FORM COVER S



To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below. 1. Name of conveying party(ies): 2. Name and address of receiving party(ies) Tsuyoshi Ohyama (08/03/2012) and Daisuke Sony Corporation Takama (08/01/2012) Internal Address: Additional name(s) of conveying party(ies) attached? Street Address: 3. Nature of conveyance/Execution Date(s): 1-7-1 Konan Minato-Ku, Tokyo Execution Date(s): in parentheses after inventor name 108-0075 x Assignment **JAPAN** Merger Change of Name Security Agreement Joint Research Agreement City: Government Interest Assignment Executive Order 9424, Confirmatory License Country: Additional name(s) & address(es) attached? 4. Application or patent number(s): This document is being filed together with a new application. A. Patent Application No.(s) B. Patent No.(s) 13/527,840 Additional numbers attached? Yes 5. Name and address to whom correspondence 6. Total number of applications and concerning document should be mailed: patents involved: Christopher M. Tobin RADER, FISHMAN & GRAUER PLLC 7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 Internal Address: Atty. Dkt.: SON-5102 Street Address: 1233 20th Street, N.W. Authorized to be charged to deposit account Suite 501 None required (government interest not affecting title) City: Washington 8. Payment Information DC State: 20036 Zip: Phone Number: (202) 955-3750 (202) 955-3751 Fax Number: Deposit Account Number 18-0013 Email Address: cmt@raderfishman.com Authorized User Name Christopher M. Tobin 9. Signature: August 15, 2012 Date 90000015 180013 13527840 Christopher M. Tobin - 40,290 Name of Person Signing sheet attachments, and deputients

REEL: 028833 FRAME: 0831





ASSIGNMENT

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 DISPLAY APPARATUS AND VARIABLE LENS ARRAY

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 1-7-1 Konan, Minato-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 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: 13/527,840, Filing Date: June 20, 2012

TSUYOSHI OHYAMA	
Name of first or sole inventor TOKYO, JAPAN	Execution date of U.S. Patent Application
Residence of First or sole inventor 194764 Dhyama Signature of first or sole inventor	August 3, 2012
Signature of first or sole inventor	Date of this assignment
DAISUKE TAKAMA	
Name of second inventor KANAGAWA, JAPAN	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

PATENT REEL: 028833 FRAME: 0832

Attorney Docket No. 80001-5102 SONY Ref. No.: SP320992US00

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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;

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TSUYOSHI OHYAMA	
Name of first or sole inventor TOKYO, JAPAN	Execution date of U.S. Patent Application
Residence of First or sole inventor	
Signature of first or sole inventor	Date of this assignment
DAISUKE TAKAMA	
Name of second inventor KANAGAWA, JAPAN	Execution date of U.S. Patent Application
Residence of second inventor Sawake Fakama	August 1, 2012 Date of this assignment
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

PATENT REEL: 028833 FRAME: 0833

RECORDED: 08/15/2012