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Form PTO-1595 (Rev. 03-11) OMB No. 0851-0027 (exp. 03/31/2015)	U.S. DEPARTMENT OF COMMERCI United States Patent and Trademark Office			
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Hiroki Tanaka (12/10/2002), Masako Muro (12/12/2002), and Ryo Nagahashi (05/13/2003)	Name: Sony Corporation			
Additional name(s) of conveying party(los) attached?	Internal Address:			
3. Nature of conveyance/Execution Date(s): Execution Date(s): In parentheses after inventor name X Assignment Government Interest Assignment Executive Order 9424, Confirmatory License	1-7-1 Konan, Minato-ku Tokyo 108-0075 JAPAN City:			
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	Additional name(s) & address(es)			
12/075,349 Additional numbers attached?	Yes XNo			
5. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and 1			
Name: Lawrence E. Russ LERNER, DAVID, LITTENBERG, KRUMHOLZ & MENTLIK, LLP Internal Address: Atty. Dkl.;	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00			
Street Address: 600 South Avenue West	X Authorized to be charged to deposit account Enclosed None required (government Interest not affecting title)			
City: Westfield	8. Payment Information			
State: NJ Zlp: 07090				
Phone Number: 908-654-5000				
Fax Number; 908-654-7866 Email Address: mcormier@ldlkm.com	Deposit Account Number 12-1095 Authorized User Name Lawrence E. Russ			
3. Signature: E Rin	July 15, 2013			
Signature	Date			
Lawrence E. Russ - 35,342 Name of Person Signing	Total number of pages including cover sheet, attachments, and documents: 2			

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SONY CORPORATION 7-35, Kitashinagawa 6-chome, Shinagawa-ku, Tokyo 141-0001 Japan

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title of invention

IMAGE PICKUP DEVICE, ITS USING METHOD AND ITS CONTROL PROGRAM

as set forth in his/her United States Patent Application

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has not executed and will not execute any document or instrument in conflict herewith; Each of the undersigned further covenants and agrees that at any time upon request of said ASSIGNEE, its successors, legal representatives or assigns he/she will communicate to said ASSIGNEE, its successors, legal representatives or assigns all information known to him/her relating to said invention or patent application and that he/she will execute and deliver any papers, make all rightful oaths, testify in any legal proceedings and perform all other lawful acts deemed necessary or desirable by said ASSIGNEE, its successors, legal representatives or assigns to perfect title to said invention, to said application including divisions and continuations thereof and to any and all Letters Patent which may be granted therefor or thereon, including reissues, reexaminations, or extensions, in said ASSIGNEE, its successors, or assigns or to assist said ASSIGNEE, its successors, legal representatives or assigns in obtaining, reissuing or enforcing Letters Patent of the United States for said invention; Each of the undersigned hereby grants the firm of COOPER & DUNHAM

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names and signatures of inventors

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Ryo	Nagahashi	dateMay 1	3.2003	date
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PATENT REEL: 030864 FRAME: 0452

name and address of assignee

RECORDED: 07/15/2013