01-31-2002

FORM PTO-1595	RI	
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U.S. DEPARTMENT OF COMMERCE

**Patent and Trademark Office** 

Т

To the Honorable Commissioner of Patents and Trademark thereof.	s: Please Record the attached original documents or copy	
1, Name of conveying party(ies): SHINICHI HORII SHIGEYOSHI HIRASHIMA ATSUSHI NAKAMURA SHINJI KAYABA MAKOTO ANDO HIROSHI TOKUNAGA TAKAAKI MURAKAMI Additional name(s) of conveying party(ies) attached?  □ Yes □ No	2. Name and address of receiving party(ies): Name:Sony Corporation  Internal Address: 7-35, Kitashinagawa 6-chomeShinagawa-ku, Tokyo 141, Japan  Street Address: City:State:Zip:	
3. Nature of conveyance:	Additional Name(s) & Address(es) attached □ Yes 図 No	
4. Application (number(s) or patent number(s): If this document is being filed together with a new a	pplication, the execution date of the application is:	
A. Patent Application No.(s) U.S. Serial No. 09/925,154 filed August 8, 20 Attorney Docket No. 09792909-5163	B: Patent No.(s)	
Additional numbers attached? ☐ Yes ☒ No	6. Total number of applications and patents involved	
5. Name and address of party to whom correspondence concerning document should be mailed:	7. Total Fee (37 CFR 3.41 \$ 40.00 ⊠ Enclosed	
SONNENSCHEIN NATH & ROSENTHAL	☑ Authorized to be charged to deposit account any Additional fees	
P.O. Box #061080 Wacker Drive Station Sears Tower Chicago, IL 60606-1080 Customer ID No. 26263	8. Deposit Account Number:  19.3140  (Attach duplicate copy of this page if paying by deposit account)	
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	December 7, 2001  Date Total number of pages 3	
Mail documents to be recorded and required cover sheet information to:  Commissioner of Patents and Trademarks  Box Assignments  Washington, D.C. 20231+		

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40.00 DP 01 FC:581

Docket Number: 09792909-5163

## 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

PRINT HEAD, MANUFACTURING METHOD THEREFOR, AND PRINTER

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: 09/925,154 Filing Date: Augusut 8, 2001

This assignment executed on the dates indicated below.

SHINICHI HORII	Execution date of U.S. Patent Application	
Name of first or sole inventor	Execution date of Old, 1 state of p.	
KANAGAWA, JAPAN		
Residence of first or sole inventor Shinich 7 Loui	November 26, 200/	
Shinich 140 cm	Date of this assignmen	

Signature of first or sole inventor

SHIGEYOSHI HIRASHIMA	
Name of second inventor	Execution date of U.S. Patent Application
KANAGAWA, JAPAN	
Residence of second inventor	Vouember 26 2001
Shigeyoshu Hirashima	renember 26. 25 /
Signature of second inventor	Date of this assignment
ATSUSHI NAKAMURA	
Name of third inventor	Execution date of U.S. Patent Application
KANAGAWA, JAPAN	
Residence of third inventor	
Atsushi Nakamura Signature of third inventor	December 03,700/ Date of this assignment
Signature of third inventor	Date of this assignment
SHINJI KAYABA	Execution date of U.S. Patent Application
Name of fourth inventor	Execution date of O.S. I atent Application
TOKYO, JAPAN	
Residence of fourth inventor	December 3 2001
Skinji Kayaba	Date of this assignment
Signature of fourth inventor	
MAKOTO ANDO	
Name of fifth inventor	Execution date of U.S. Patent Application
TOKYO, JAPAN	
Residence of fifth inventor	D / 2 100/
Malesto ando	December 3 200/ Date of this assignment
Signature of fifth inventor	Date of this assignment

HIROSHI TOKUNAGA	
Name of sixth inventor	Execution date of U.S. Patent Application
TOKYO, JAPAN	
Residence of sixth inventor  Hurshi Tikuwaga  Signature of sixth inventor	Lecember 3, 2001  Date of this assignment
Signature of sixth inventor	Date of this assignment
TAKAAKI MURAKAMI Name of seventh inventor	
	Execution date of U.S. Patent Application
KANAGAWA, JAPAN Residence of seventh inventor	
Fakauku Muzakami	Secenter 3, 200/
Signature of seventh inventor	Date of this assignment
	Date of this assignment
Name of eighth inventor	Execution date of U.S. Patent Application
Residence of eighth inventor	
Signature of eighth inventor	Date of this assignment
Name of ninth inventor	Execution date of U.S. Patent Application
Residence of ninth inventor	
Signature of ninth inventor	Date of this assignment

**RECORDED: 01/18/2002**