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| | 1-31-92 | -11-1998 | U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office | |
| 0 | 7217/56452 AUG 3 1 1990 REC | | | |
| | To the Honorable Commissioner of Patents and Trademarks. Pla 1. Name of conveying party(ies): | 0825687 Name and address of feceiv | f. mg party(ies): | |
| 7 | Shinichi Horii, Kenji Suzuki, Yuji Yakura, Tooru Tanikawa, Yuichiro Ikemoto and Hiroshi Tokunaga | Name: Sony Corporation | | |
| | Additional name(s) of conveying party(ies) attached? Yes X No | Internal Address: | | |
| 7 | 3. Nature of Conveyance: | Street Address: 7-35 Kitashina | | |
| 7 | X Assignment | Shinagawa-ku, Tok City State | | |
| //// | Security Agreement Change of Name | | | |
| | LJ Other Execution Date: August 12, 17 & 19, 1998 | Additional name(s) & address | (es) attached? Yes X No | |
| 4. Application number(s) or patent number(s): 09/108,033 | | | | |
| | If this document is being filed together with a new application, the execution date of the A. Patent Application No.(s) | he application is: B. Patent No.(s) | | |
| | Additional numbers attached | Yes X No | | |
| | Name and address of party to whom correspondence concerning document should be mailed: | 6. Total number of application | ns and patents involved: | |
| | Name:Jay H. Maioli Internal Address:Cooper & Dunham LLP | 7. Total fee (37 CFR 3.41): Enclosed | \$ 40.00 | |
| | Street Address: 1185 Avenue of the Americas | | e charged to deposit account | |
| | Street Address. 1185 Avenue of the Americas | 03-3125 duplicate copy of this page if p | (Attach | |
| | City: New York State: New York ZIP 10036 | duplicate copy of this page if p | paying by deposit account) | |
| ŀ | 9. Statement and signature. | DO NOT USE THIS SPACE | | |
| To the best of my knowledge and belief, the foregoing information is true and correct and any attention the original document. Jay H. Maioli August 25, 1998 Name of Person Signing Signature Date | | | nd any attached copy is a true copy of | |
| | | | <u> </u> | |
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| | Box Assignments Washington, D.C. 20231 Public burden reporting for this sample cover sheet is estimated to average about 30 minutes per document to be recorded, including time for reviewing the document and gathering the data needed, and completing and reviewing the sample cover sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Office of Information Systems, PK2-1000C, Washington, D.C. 20231, and to the office of Management and Eudget, Paperwork Reduction Project. (0651-0011). Washington, D.C. 20503 | | | |
| | | | | |

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 INK-JET PRINTER AND DRIVE METHOD OF RECORDING HEAD FOR INK-JET 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 at6-7-35 Kitashinagawa, Shinagawa-Ku, Tokyo, Japan (hereinafter reference 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 thereof;

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 thereof;

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 09/108,033 , Filing Date June 30, 1998 .

This assignment executed on the dates indicated below.

| Shinichi Horii | |
|---|--|
| Name of first or sole inventor | Execution date of U.S. Patent Application |
| Kanagawa, Japan | |
| Residence of first or sole inventor | |
| Shinichi 7 Loui | August 12, 1998 Date of this assignment |
| Signature of first or sole inventor | Date of this assignment |
| Kenji Suzuki | |
| Name of second inventor | Execution date of U.S. Patent Application |
| Kanagawa, Japan | |
| Residence of second inventor | • |
| Signature of second inventor | August 12,1998 Date of this assignment |
| Signature of second inventor | Date of this assignment |
| Yuji Yakura Name of third inventor | Execution date of U.S. Patent Application |
| | inequation date of 0.5. Patent Application |
| Kanagawa, Japan | |
| Residence of third inventor | August 17, 1998 Date of this assignment |
| Signature of third inventor | Date of this assignment |
| Tooru Tanikawa Name of fourth inventor | |
| Name of fourth inventor | Execution date of U.S. Patent Application |
| Kanagawa, Japan | |
| Residence of fourth inventor | |
| Joorn Tomikawa | Jangust 19, 1995 |
| Signature of fourth inventor | Date of this assignment |
| Yuichiro Ikemoto | |
| Name of fifth inventor | Execution date of U.S. Patent Application |
| Kanagawa, Japan Residence of fifth inventor | |
| Michiro & femoto | A 10 1098 |
| Signature of fifth inventor | (Ingust 12,1998 |
| organipare or freeze thecheor | nate of this assignment |

Hiroshi Tokunaga
Name of sixth inventor

Tokyo, Japan
Residence of sixth inventor

Wish Tokunaga
Signature of sixth inventor

Date of this assignment

RECORDED: 08/31/1998