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RECORD
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To the Director of the U.S. Patent and Trademark Office _____ a new address(es) below.

1. Name of conveying party(ies):
Noboru Koyama (6/18/07); Izumi Kariya (6/22/07);
Mitsuo Yanase (6/22/07); Toru Morikawa (6/22/07)
Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies)
Name: Sony Corporation
Internal Address: _____
Street Address: _____
1-7-1 Konan, Minato-Ku
Toyko, 108-0075
JAPAN
City: _____
State: _____
Country: _____ Zip: _____
Additional name(s) & address(es) attached? Yes No

3. Nature of conveyance/Execution Date(s):
Execution Date(s): Listed above in parenthesis
 Assignment Merger Change of Name
 Security Agreement Joint Research Agreement
 Government Interest Assignment
 Executive Order 9424, Confirmatory License
 Other _____

4. Application or patent number(s): This document is being filed together with a new application.
A. Patent Application No.(s)
11/716,711
B. Patent No.(s)
Additional numbers attached? Yes No

5. Name and address to whom correspondence concerning document should be mailed:
Name: Ronald P. Kananen
RADER, FISHMAN & GRAUER PLLC
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6. Total number of applications and patents involved: 1
7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00
 Authorized to be charged by credit card
 Authorized to be charged to deposit account
 Enclosed
 None required (government interest not affecting title)

8. Payment Information
a. Credit Card Last 4 Numbers _____
Expiration Date _____
b. Deposit Account Number 18-0013
Authorized User Name Ronald P. Kananen

9. Signature: [Signature] June 27, 2007
Signature Date
Ronald P. Kananen - 24,104
Christopher M. Tobin 49290
Name of Person Signing Total number of pages including cover sheet, attachments, and documents: 4

06/29/2007 NJAMA1 00000032 180013 11716711
01 FC18021 40.00 DA

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

THERMAL HEAD 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**, located and doing business at **1-7-1 Konan, Minato-ku, Tokyo, JAPAN** (hereinafter referenced as ASSIGNEE) are 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 ASSIGNEES, 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 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 ASSIGNEES or its designee, as ASSIGNEES 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 ASSIGNEES 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: 11/716,711, Filing Date: March 12, 2007.

This assignment executed on the dates indicated below.

Noboru Koyama
Name of first inventor

Execution date of U.S. Patent Application

Tokyo, Japan
Residence of first inventor

Noboru Koyama
Signature of first inventor

June 18, 2007
Date of this assignment

Izumi Kariya
Name of first inventor

Execution date of U.S. Patent Application

Kanagawa, Japan
Residence of first inventor

Izumi Kariya
Signature of first inventor

Jun 22, 2007
Date of this assignment

Mitsuo Yanase
Name of first inventor

Execution date of U.S. Patent Application

Kanagawa, Japan
Residence of first inventor

Mitsuo Yanase
Signature of first inventor

Jun 22, 2007
Date of this assignment

Toru Morikawa
Name of first inventor

Execution date of U.S. Patent Application

Kanagawa, Japan
Residence of first inventor

Toru Morikawa
Signature of first inventor

June 22, 2007
Date of this assignment