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103547365

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents of the following:

1. Name of conveying party(ies):

Noboru Koyama (01/08/2009), Mitsuo Yanase
(01/08/2009), Toru Morikawa (01/26/2009), and
Kazunori Onuma (01/09/2009)

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, Tokyo
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): in parentheses after inventor name

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):

A. Patent Application No.(s)

This application

This document is being filed together with a new application.

B. Patent No.(s)

Additional numbers attached? Yes No

5. Name and address to whom correspondence concerning document should be mailed:

Name: Christopher M. Tobin
RADER, FISHMAN & GRAUER PLLC

Internal Address: Atty. Dkt.: SON-4155
Street Address: 1233 20th Street, N.W.
Suite 501

City: Washington

State: DC Zip: 20036

Phone Number: (202) 955-3750

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Email Address: cmt@raderfishman.com

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 to deposit account

Enclosed

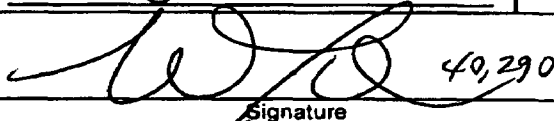
None required (government interest not affecting title)

8. Payment Information

Deposit Account Number 18-0013

Authorized User Name Christopher M. Tobin

9. Signature:

 40,290
Signature

January 29, 2009

Date

Christopher M. Tobin - 40,290
Ronald P. Kananen - 24,104

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

3

02/09/2009 DBYRNE 00000019 180013 12320549
01 FC:0021 40.00 DA

ASSIGNMENT

WHEREAS, I, as a below named inventor, residing at the address stated next to my name, am a sole inventor (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, THERMAL PRINTER AND MANUFACTURING METHOD OF THERMAL HEAD

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 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 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 prior 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 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 and 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 in this application in the spaces that follow: Serial Number: _____, Filing Date: _____.

This assignment executed on the dates indicated below.

Noboru KOYAMA	Execution date of U.S. Patent Application
Tokyo, Japan	January 8, 2009
Signature of first or sole inventor	Date of this assignment

Mitsuo YANASE

Name of second inventor

Execution date of U.S. Patent Application

Kanagawa, Japan

Residence of second inventor

Mitsuo Yanase

Signature of second inventor

January 8, 2009

Date of this assignment

Toru MORIKAWA

Name of third inventor

Execution date of U.S. Patent Application

Kanagawa, Japan

Residence of third inventor

Toru Morikawa

Signature of third inventor

January 26, 2009

Date of this assignment

Kazunori ONUMA

Name of fourth inventor

Execution date of U.S. Patent Application

Miyagi, Japan

Residence of fourth inventor

Kazunori Onuma

Signature of fourth inventor

January 9, 2009

Date of this assignment

Name of fifth inventor

Execution date of U.S. Patent Application

Residence of fifth inventor

Signature of fifth inventor

Date of this assignment