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FORM PTO-1595
(Rev. 6-93)

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U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office
Atty. Docket No. 04173.0376

To the Assistant Commissioner for Patents:

Please record the attached original documents or copy thereof.

ATTN. BOX ASSIGNMENTS

1. Name of conveying party(ies):

1. Yusuke KITAZAWA
2. Yasuhisa TAKAMURA

Additional names(s) of conveying party(ies)
attached? Yes XX No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other

Execution Date: 1. on August 6, 1998
2. on July 22, 1998

2. Name and address of receiving party(ies):

Name: KABUSHIKI KAISHA TOSHIBA

Internal Address: _____

Street Address: 72, Horikawa-cho,
Saiwai-ku, Kawasaki-shi, Kanagawa-ken 210
Japan

City: _____

State: _____ ZIP: _____

Additional name(s) & address(es) attached?
Yes XX No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application,
the execution date of the application is: _____

A. Patent Application Nos.

09/117,827

B. Patent No. (s)

Additional numbers attached? YES X NO5. Name and address of party to whom
correspondence concerning document
should be mailed:Name: Mr. Ernest F. Chapman

Internal Address: _____

Finnegan, Henderson, Farabow, Garrett
& Dunner, L.L.P.

Street Address: _____

1300 I Street, N.W.City: Washington, D.C.State: _____ ZIP: 200056. Total number of applications and patents
involved 17. Total fee (37 CFR 3.41): \$ 40.00☒ Enclosed☐ Authorized to be charged to
deposit account8. Deposit account number: 06-0916

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40.00 UP

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct
and any attached copy is a true copy of the original document.Richard V. Burqujian

Name of Person Signing

SignatureMarch 16, 1999

Date

Total number of pages including cover sheet, attachments and document: 2PATENT
REEL: 9823 FRAME: 0387

A S S I G N M E N T

WHEREAS I/We, the below named inventor(s), [hereinafter referred to as Assignor(s)], have made an invention entitled: THERMAL PRINTING HEAD, PROCESS FOR PRODUCING THERMAL PRINTING HEAD, RECORDER, SINTER, AND TARGET

for which I/WE executed an application for United States Letters Patent concurrently herewith or on _____ or filed an application for United States Letters Patent on _____, 19____ (Serial No. _____); and

WHEREAS, KABUSHIKI KAISHA TOSHIBA,
a corporation of Japan, whose post office
address is 72, Horikawa-cho, Saiwai-ku, Kawasaki-shi, Kanagawa-ken, Japan
(hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention, the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from assignee is hereby acknowledged, I/WE, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, my/our entire right, title, and interest in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof; and I/WE hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue all Letters Patent for this invention to assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I/WE HEREBY further covenant and agree that I/We will, without further consideration, communicate with assignee, its successors and assigns, any facts known to me/us respecting this invention and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors and assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it being understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and assigns.

AND, I/WE HEREBY authorize and request the attorneys I/we have empowered in the Declaration and Power of Attorney in this application, to insert here in parentheses (Application No. 09/117,827, filed August 7, 1998) the filing date and application number of said application when known.

IN TESTIMONY WHEREOF, I/We have hereunto set our hand(s).

| | |
|---|---------------------------|
| 1. Full Name of Sole or First Assignor : Assignor's Signature | : Date |
| <u>Yusuke KITAZAWA</u> : <u>Yusuke Kitazawa</u> | : <u>06. August, 1998</u> |
| Address <u>2407-204, 2-4-3, Shiomidai, Isogo-ku,</u> | : Citizenship |
| <u>Yokohama-shi, Kanagawa-ken, Japan</u> | : <u>Japan</u> |
| 2. Full Name of Second Assignor : Assignor's Signature | : Date |
| <u>Yasuhisa TAKAMURA</u> : <u>Yasuhisa Takamura</u> | : <u>22. July, 1998</u> |
| Address <u>4-1-4-102, Mirokuji, Fujisawa-shi,</u> | : Citizenship |
| <u>Kanagawa-ken, Japan</u> | : <u>Japan</u> |
| 3. Full Name of Third Assignor : Assignor's Signature | : Date |
| : : | : : |
| Address | : Citizenship |
| : | : |