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PATENTS ONLY

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Osamu Watanabe, Takanori Nakano,
Kazunari Chikanawa, Shogo Matsubara,
Shintaro Hara, Kazuo NishimuraAdditional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

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

Name: Matsushita Electric Industrial Co., Ltd.Street Address: 1006, Kadoma, Kadoma-shiCity: Osaka 571-0050 State: JapanZip: Additional name(s) of receiving party(ies) attached? ☐ Yes ☒ No3. Nature of Conveyance: MBD 10/01/02☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ Other Execution Date: September 27, 2002

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

10261984If this document is being filed together with a new application, the execution date of the application is: September 27, 2002

A. Patent Application No.(s):

10/04/2002 MBIZUNES 00000084 1026198401 FC:58140.00 DP

B. Patent No.(s):

Additional number(s) attached? ☐ Yes ☒ No

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

Name: Jeffrey J. SopkoStreet Address: 526 Superior Avenue EastSuite 1200City: Cleveland State: OH Zip: 44114-14846. Total number of applications and patents involved: 17. Total Fee (37 C.F.R. §3.41) \$40.00☒ Enclosed☒ Authorized to be charged to Deposit Account
for any uncovered fees

8. Deposit Account No.

16-0820, Order No. 35037

(Attach duplicate copy of this page if paying by deposit account)

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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.*Jeffrey J. Sopko

Name of Person Signing

Signature

October 1, 2002

Date

Total number of pages including cover sheet, attachments, and document: 4PATENT
REEL: 013356 FRAME: 0858

ASSIGNMENT

WHEREAS, new and useful improvements have been made by the undersigned in

FERROELECTRIC ELEMENT AND ACTUATOR USING THE SAME,
AND INK JET HEAD AND INK JET RECORDING DEVICE

and are the subject of a patent application prepared for filing in the United States Patent and Trademark Office, and executed by the undersigned on the date(s) indicated below, which application is further identified as Pearne & Gordon LLP Docket No. 35037.

WHEREAS, MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.,
a corporation of Japan, and having a place of business at
1006, Kadoma, Kadoma-shi, Osaka, Japan
hereinafter referred to as "assignee", is desirous of acquiring all right, title, and interest throughout the world in, to, and under said improvements and inventions and patent rights therefor.

NOW, THEREFORE, be it known that, for valuable consideration, the receipt and sufficiency of which are hereby acknowledged, all right, title, and interest, in the United States and throughout the world, in, to and under said improvements and inventions and all patents, patent applications, patent rights, and inventor's certificates thereof, therefor, and therein, including without limitation said application for patent in the United States, all divisions and continuations thereof, all patents which may be granted thereon, all reissues and extensions thereof, all right to sue for past infringement thereunder, all patents which may be granted for said improvements and inventions by states or nations other than the United States, or by other authority, entity, or organization, and all applications therefor, have been and are hereby sold, assigned, transferred, and delivered unto assignee, its successors and assigns; and it is covenanted and agreed by the undersigned, and for executors, administrators, and legal representatives of the undersigned, that at assignee's request any and all applications, affidavits, assignments, and other instruments will be made, executed, and delivered as may be necessary, or desirable to secure for or vest in assignee, its successors or assigns, any improvement, inventions, right, title, interest, application, patent, patent right or other right or property covered by this assignment, and the United States Commissioner of Patents and Trademarks is hereby requested and authorized to issue any and all United States patents granted on any of said applications to assignee as owner of the entire right, title, and interest in, to, and under the same, and appropriately empowered officials of foreign countries are hereby authorized to issue any letters patent granted on any of said applications to assignee as owner of the entire right, title and interest in, to, and under the same.

The undersigned hereby grants the firm of Pearne & Gordon LLP the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, this assignment has been executed below by the undersigned:

(1) Inventor Name (solo or joint): Osamu Watanabe

Signature: Osamu Watanabe

Today's Date: September 27, 2002

Date I Signed Declaration: September 27, 2002

Witness:

Witness:

(2) Inventor Name (joint): Takanori Nakano

Signature: Takanori Nakano

Today's Date: September 27, 2002

Date I Signed Declaration: September 27, 2002

Witness:

Witness:

(3) Inventor Name (joint): Kazunari Chikanawa

Signature: Kazunari Chikanawa

Today's Date: September 27, 2002

Date I Signed Declaration: September 27, 2002

Witness:

Witness:

(4) Inventor Name (joint): Shogo Matsubara

Signature: Shogo Matsubara

Today's Date: September 27, 2002

Date I Signed Declaration: September 27, 2002

Witness:

Witness:

(5) Inventor Name (joint): Shintaro Hara

Signature: Shintaro Hara

Today's Date: September 27, 2002

Date I Signed Declaration: September 27, 2002

Witness:

Witness:

(6) Inventor Name (joint): Kazuo Nishimura

Signature: Kazuo Nishimura

Today's Date: September 27, 2002

Date I Signed Declaration: September 27, 2002

Witness:

Witness:

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