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To the Honorable Assistant Commissioner for Patents. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):
Akira YAMADA, Chisako MAEDA, Toshio UMEMURA, Fusaoki UCHIKAWA, Koichiro MISU, Shusou WADAKA and Takahide ISHIKAWA

Additional name(s) of conveying party(ies) attached?
 yes no

2. Name and address of receiving party(ies)?
Name:
MITSUBISHI DENKI KABUSHIKI KAISHA
Internal Address:
2-3, Marunouchi 2-chome, Chiyoda-ku, TOKYO 100-8310 JAPAN
Street Address:
Same as above

City State Zip

3. Nature of Conveyance:

 Assignment Merger
 Security Agreement Change of Name
 Other

Execution Date: October 12, 1999

Additional name(s) & address(es) attached?
 yes 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:
October 12, 1999
A. Patent Application No.(s) | B. Patent No(s).

09423538
Additional numbers attached? Yes No

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

SUGHRUE, MION, ZINN, MACPEAK & SEAS
2100 Pennsylvania Avenue, N.W.
Suite 800
Washington, D.C. 20037-3202

6. Total number of applications and patents involved:
One (1)

7. Total Fee (37 CFR 3.41): \$ 40.00
 Enclosed. Please charge any underpayment in connection with this Assignment to Deposit Account No. 19-4880.
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8. Deposit Account No.
(Attach dupl. 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.

Name Waddell A. Biggart Reg. No. 24,861
November 12, 1999
Date

TOTAL NUMBER OF PAGES INCLUDING COVER SHEET, ATTACHMENTS AND DOCUMENT: 2

OMB No. 0651-0011 (exp. 4/94)

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Mail documents to be recorded with required cover sheet information to:
Assistant Commissioner for Patents
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Assignment

Whereas, I/We, Akira YAMADA, Chisako MAEDA, Toshio UMEMURA, XX
Fusaoki UCHIKAWA, Koichiro MISU, Shusou WADAKA and Takahide ISHIKAWA of

c/o Mitsubishi Denki Kabushiki Kaisha,
2-3, Marunouchi 2-chome, Chiyoda-ku, TOKYO 100-8310 JAPAN

hereinafter called assignor(s), have invented certain improvements in

PIEZOELECTRIC THIN FILM DEVICE

and executed an application for Letters Patent of the United States of America therefor on
October 12, 19 99; and

Whereas, Mitsubishi Denki Kabushiki Kaisha of
2-3, Marunouchi 2-chome, Chiyoda-ku, TOKYO 100-8310 JAPAN
(assignee), desires to acquire the entire right, title, and interest in the application and invention; and to
any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

I/We, the above named assignor(s), hereby sell, assign and transfer to the above named assignee, its
successors and assigns, the entire right, title and interest in the application and the invention disclosed
therein for the United States of America, including the right to claim priority under 35 U.S.C. §119, and
I/we request the Commissioner of Patents to issue any Letters Patent granted upon the invention set forth
in the application to the assignee, its successors and assigns; and I/we will execute without further
consideration all papers deemed necessary by the assignee in connection with the United States application
when called upon to do so by the assignee.

I/We hereby authorize and request my attorneys SUGHRUE, MION, ZINN, MACPEAK & SEAS of
2100 Pennsylvania Avenue, N.W., Washington, D.C. 20037-3202 to insert here in parentheses (Application
number _____, filed _____) the filing date and application
number of said application when known.

Date: 12/10/1999 s/ Akira Yamada
Akira YAMADA

Date: 12/10/1999 s/ Chisako Maeda
Chisako MAEDA

Date: 12/10/1999 s/ Toshio Umemura
Toshio UMEMURA

Date: 12/10/1999 s/ Fusaoki Uchikawa
Fusaoki UCHIKAWA

Date: 12/10/1999 s/ Koichiro Misu
Koichiro MISU

Date: 12/10/1999 s/ Shusou Wadaka
Shusou WADAKA

Date: 12/10/1999 s/ Takahide Ishikawa
Takahide ISHIKAWA

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)