

11-28-2000

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To the Honorable Commissioner of Patents

101529700

and attached original documents or copy thereof.

1. Name of conveying party(ies):

Takao Nakayama

Hideyuki Kataoka

Shinichi Sakamoto

Handwritten: MKO, 10-31-00

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

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

Name: TORAY TECHNO CO., LTD.

Internal Address:

Street Address: 1-1, Sonoyam 1-chome, Otsu-shi,

Shiga 520-8558 JAPAN

City: State: ZIP:

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

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other

Execution Date: October 24, 2000

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 31, 2000

A. Patent Application No.(s)

B. Patent No.(s)

11/02/2000 MAHMED1 00000063 09702248

02 FC:581

40.00

Additional numbers attached? Yes No

Handwritten: 09/702248

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

Name: Charles N. Quinn

Internal Address: Saul Ewing LLP

Centre Square West

Street Address: 1500 Market Street, 38th Floor

City: Philadelphia State: PA ZIP: 19102-2186

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41) \$ 40.00

- Enclosed
- Excess/SHORTFALL Authorized to be charged to deposit account

8. Deposit account number:

50-1089

(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.

Charles N. Quinn

Name of Person Signing

Handwritten signature of Charles N. Quinn

Signature

31 October 2000

Date

Total number of pages including cover sheet, attachments, and document: 4

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

THE UNITED STATES PATENT AND TRADEMARK OFFICE

Title : CYLINDRICAL PIEZOELECTRIC TRANSDUCER AND CYLINDRICAL
PIEZOELECTRIC VIBRATING ELEMENT
Inventor(s) :
Takao Nakayama, Hideyuki Kataoka, Shinichi Sakamoto
Serial No. :
Filed : 30 October 2000

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Our File: 14206.00001

ASSIGNMENT

The undersigned is/are the inventor(s) of an invention for which a United States patent is being sought pursuant to a United States patent application having the title indicated above.

The company identified below:

TORAY TECHNO CO., LTD.
(Name of Company--Printed)

organized under the laws of the state or nation identified below:

JAPAN
(State or Country--Printed)

having a principal place of business at and a mailing address of

1-1, Sonoyam 1-chome, Otsu-shi, Shiga 520-8558 Japan

(mailing address)

(hereinafter referred to as "Company") is desirous of acquiring the entire right, title and interest in and to such invention, all patent applications relating thereto including the above-referenced

United States patent application, and all letters patent issuing for the invention anywhere in the world.

In consideration of the monetary equivalent of one U.S. dollar (\$1.00) and of other good and valuable consideration, receipt of which is hereby acknowledged, the undersigned, intending to be legally bound, do hereby sell, assign and transfer to Company the entire right, title and interest for the United States of America, its territories and possessions, and all foreign countries, in and to the invention and all patent applications therefor, including the patent application referenced above, all divisions and continuations of such patent applications, all rights to claim priority, all rights to file foreign patent applications for the invention, and all letters patent and reissues thereof for the invention in the United States of America and in all foreign countries.

The undersigned acknowledge being legally bound to supply, upon request of Company or the successors or assigns or legal representatives thereof, all information and evidence of which the undersigned have knowledge or possession, relating to the making and practice of the invention, to testify in any legal proceeding relating thereto, to execute all instruments proper to patent the invention in the United States of America and foreign countries in the name of Company and to execute all instruments reasonably necessary to carry out the intent of this instrument of assignment.

The undersigned hereby declare that all statements made herein of their own knowledge are true and that all statements made on

their information and belief are believed to be true and further that they realize that willful, false statements and the like so-made are punishable by fine or imprisonment or both, under Section 1001 of Title 18 of the United States Code and that such willful, false statements may jeopardize the validity of the application or any patent issued thereon.

The rights and property herein conveyed by the undersigned are free and clear of any encumbrance.

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October 24, 2000
(date)

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(date)

FIFTH JOINT INVENTOR (if any)

(name printed)

(address)

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(date)

(date)

SIXTH JOINT INVENTOR (if any)

(name printed)

(address)

(citizenship)

(signature)

(date)