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Form PTO-1595
(Rev. 10/02)

RE



U.S. DEPARTMENT OF COMMERCE
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OMB No. 0651-0027 (exp. 6/30/2005)

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1,028,999,950

22390 U.S. PTO
11/004783



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

1. Name of conveying party(ies):
Hirofumi KAWASHIMA

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

Internal Address: _____

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

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other _____

Street Address: 1-44-1, Kamitakada

Nakano-ku

City: Tokyo State: Japan Zip: 164-0002

Execution Date: NOVEMBER 6, 2004

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: 11/06/04

A. Patent Application No.(s) _____

B. Patent No.(s) _____

Additional numbers attached? Yes No

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

Name: BRUCE L. ADAMS

Internal Address: _____

Street Address: ADAMS & WILKS
50 BROADWAY
31ST FLOOR

City: NEW YORK State: NY Zip: 10004

6. Total number of applications and patents involved: 1

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

- Enclosed
- Authorized to be charged to deposit account
ANY DEFICIENCY IN ENCLOSED FEE

8. Deposit account number: 01-0268

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9. Signature.

BRUCE L. ADAMS

Name of Person Signing

Signature

DECEMBER 3, 2004

Date

Total number of pages including cover sheet, attachments, and documents: 3

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
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12/08/2004 LWONDIM1 00000017 11004783

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40.00 DP

PATENT
REEL: 016054 FRAME: 0323

Adams & wilks
United States Patent Rights

Attorney Docket No. S002-5402

ASSIGNMENT

WHEREAS, I, Hirofumi KAWASHIMA residing at 1-44-1, Kamitakada, Nakano-ku, Tokyo, 164-0002 Japan

(hereinafter designated as the undersigned) has (have) invented certain new invention of
PIEZOELECTRIC CRYSTAL RESONATOR, PIEZOELECTRIC CRYSTAL UNIT
HAVING THE CRYSTAL RESONATOR AND ELECTRONIC APPARATUS HAVING
THE CRYSTAL RESONATOR
for which an application for Letters Patent of the United States of America
has been executed by the undersigned on the even date herewith , and;

WHEREAS, Piedek Technical Laboratory, a Japanese corporation with offices
at 1-44-1, Kamitakada, Nakano-ku, Tokyo, 164-0002 Japan , its heirs, successors,
legal representatives and assigns (hereinafter designated as the Assignee) is desirous of
acquiring the entire right, title and interest in and to said invention and in and to any Letters
Patent(s) that may be granted therefor in the United States of America;

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to the
undersigned in hand paid, the receipt of which is hereby acknowledged, and other good and
valuable consideration, the undersigned has (have) sold, assigned and transferred, and by
these presents do sell, assign and transfer unto said Assignee the full and exclusive right to the
said invention in the United States of America and its territories and for all foreign countries,
dependencies and possessions and the entire right, title and interest in and to any and all
Letters Patent(s) which may be granted therefor in the United States of America and its
territories, dependencies and possessions, and in and to any and all divisions, reissues,
continuations and extensions thereof for the full term or terms for which the same may be
granted.

The undersigned agree(s) to execute all papers necessary in connection with this
application and any continuing, divisional or reissue applications thereof and also to execute
separate assignments in connection with such applications as the Assignee may deem
necessary or expedient.

The undersigned agree(s) to execute all papers necessary in connection with any
interference which may be declared concerning this application or any continuation, division
or reissue thereof or Letters Patent(s) or reissue patent issued thereon and to cooperate with
the Assignee in every way possible in obtaining and producing evidence and proceeding with
such interference.

The undersigned agree(s) to execute all papers and documents and to perform any act which may be necessary in connection with claims under or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents and Trademarks to issue any and all Letters Patents of the United States of America resulting from said application or any division or divisions or continuing or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) the full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the law firm of ADAMS & WILKS 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 U.S. Patent and Trademark Office for recordation of this document.

This Assignment has been executed by the undersigned on the date(s) opposite the undersigned name(s).

Date November 6, 2004, Name of Inventor  (SEAL)
Hirofumi KAWASHIMA