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TO THE ASSISTANT COMMISSIONER FOR PATENT

102414692

its or copy thereof.

J1046 U.S. PTO  
10/403233  
03/28/03

Name of conveying party(ies): (If multiple assignors, list numerically)

1. Hiroaki Mizumura 2. Hidenori Harima

Additional name(s) of conveying party(ies) attached?

() Yes (X) No

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

Name: NIHON DEMPA KOGYO CO., LTD.

Address: 21-2, Nishihara 1-chome, Shibuya-ku, Tokyo, Japan

Additional name(s) of receiving party(ies) attached?

() Yes (X) No

Nature of conveyance:

- (X) Assignment  
( ) Merger  
( ) Security Agreement  
( ) Change of Name  
( ) Other:

Execution Date: (If multiple assignors, list execution dates in numerical order corresponding to numbers indicated in above) Both executed on 03/20/03

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

- (X) Application(s) filed herewith  
Execution Date(s): Both executed on 03/20/03  
( ) Patent Application No.:  
Filing Date:  
( ) Patent No.:  
Issue Date:

10,403,233

Additional numbers attached? ( ) Yes (X) No

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

Name: Daniel E. Altman  
KNOBBE, MARTENS, OLSON & BEAR, LLP  
Customer No. 20,995  
Internal Address: Fourteenth Floor  
Street Address: 2040 Main Street  
City: Irvine State: CA ZIP: 92614  
Attorney's Docket No.: WAKAB79.007AUS

7. Total fee (37 CFR 1.21(h)): \$40.00

- (X) Enclosed  
( ) Authorized to be charged to deposit account

8. Deposit account number: 11-1410

Please charge this account for any additional fees which may be required, or credit any overpayment to this account.

Total number of applications and patents involved: 1

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.

Katsuhiro Arai

Name of Person Signing

Signature

March 28, 2003

Date

43,315

Registration No.

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

Mail documents to be recorded with required cover sheet information to:

04/10/2003 ECOOPER 00000006 10403233

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U.S. Patent and Trademark Office  
Attn: Assignment Division  
Crystal Gateway-4  
1213 Jefferson Davis Highway, Suite 320  
Arlington, VA 22202

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2703

ASSIGNMENTWHEREAS, #/WE (1) Hiroaki MIZUMURA,a Japanese citizen, residing at c/o Nihon Dempa Kogyo Co., Ltd.,  
1275-2, Oaza Kamihirose, Sayama-shi, Saitama, Japan(2) Hidenori HARIMA,a Japanese citizen, residing at c/o Nihon Dempa Kogyo Co., Ltd.,  
1275-2, Oaza Kamihirose, Sayama-shi, Saitama, Japan

(3) \_\_\_\_\_,

a \_\_\_\_\_ citizen, residing at \_\_\_\_\_

hereinafter referred to as Assignor (collectively if more than one inventor is listed above), have invented certain new and useful improvements in SHEET SUBSTRATE FOR CRYSTAL OSCILLATOR AND METHOD OF  
MANUFACTURING SURFACE-MOUNT CRYSTAL OSCILLATORS USING SAME,  
the specification of which:

- (a) ☒ is attached hereto; or
- (b) ☐ was filed on \_\_\_\_\_ as Application  
No. \_\_\_\_\_ or Express Mail No., as Application No. not  
yet known \_\_\_\_\_ and was amended  
on \_\_\_\_\_ (if applicable); or
- (c) ☐ was described and claimed in PCT International Application No.  
\_\_\_\_\_ filed on \_\_\_\_\_  
and as amended under PCT Article 19 on \_\_\_\_\_  
(if any) and/or under PCT Article 34 on \_\_\_\_\_ (if any).

AND WHEREAS, NIHON DEMPA KOGYO CO., LTD.,

with its principal place of business at 21-2, Nishihara 1-chome, Shibuya-ku, Tokyo, Japan,  
(hereinafter referred to as Assignee) desires to acquire the entire right, title, and interest in and to the said  
improvements with respect to the United States of America, its territories and possessions.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby  
acknowledged, Assignor hereby acknowledges that it has sold, assigned, transferred and set over, and by these  
presents does hereby sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and  
assigns, the entire right, title, and interest in the United States of America, and its territories and possessions in, to  
and under said improvements, and any Patent Applications in the United States of America and all divisions,  
renewals and continuations thereof, and all Patents of the United States of America which may be granted thereon  
and all reissues and extensions thereof, and all rights of priority under International Conventions; and Assignor

hereby authorizes and requests the Commissioner of Patents of the United States of America to issue all Patents for said improvements to Assignee, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND ASSIGNOR HEREBY covenants and agrees that it will communicate to Assignee, its successors, legal representatives and assigns, any facts known to it respecting said improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in the United States of America.

IN TESTIMONY WHEREOF, Assignor intending to be legally bound has hereunto affixed its signature.

This 20th day of March, 2003 H. Mizumura  
Signature of Hiroaki MIZUMURA

This 20th day of March, 2003 H. Harima  
Signature of Hidenori HARIMA

This \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_  
Signature of \_\_\_\_\_