Docket No: 0083-0869-0/rD

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

1. Name of conveying party(ies):
   Atsuyuki NAKANO, Akinori OI, Takuya AOKI and Minoru TAKAYA

2. Name and address of receiving party(ies):
   Name: TDK Corporation
   Address: 13-1, Nihonbashi 1-chome, Chuo-ku, Tokyo 103-0027, Japan

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

3. Nature of Conveyance:
   □ Assignment  □ Merger
   □ Security Agreement □ Change of Name
   □ Other

Execution Date: July 24, 24 and August 5, 1998

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: N/A
   A. Patent Application No.(s)
      09/132,512

   Additional numbers attached? □ Yes ■ No

5. Name and address of party to whom correspondence concerning document should be mailed:
   OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, P.C.
   Attorneys at Law
   Fourth Floor
   1755 Jefferson Davis Highway
   Arlington, Virginia 22202

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

8. Deposit account number: 15-0030
   (Attach duplicate copy of this page if paying by deposit account)


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.

John K. Pike, Ph.D.
Registration No. 41,253

Norman F. Oblon
Registration No. 24,618

Signature
Total number of pages Including cover sheet: 3

Date

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

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

Commissioner of Patents and Trademarks
Box Assignments
Washington, D.C. 20231

09/14/1998
09/132,512
09/14/98

01 FC581
40.00 DP

PATENT
REEL: 9433 FRAME: 0989
WHEREAS, I (WE),

Atsuyuki NAKANO
4-9, Ryukakujidai 4-chome, Sakaemachi, Inba-gun, Chiba 270-1600 Japan

Akinori OI
17-15, Misatodai 2-chome, Narita-shi, Chiba 286-0013 Japan

Takuya AOKI
656, Nishiohsuga, Shinofusanachi, Katori-gun, Chiba 289-0124 Japan

Minoru TAKAYA
c/o TDK Corporation, 13-1, Nihonbashi 1-chome, Chuo-ku, Tokyo 103-0027 Japan

have invented certain new and useful improvements in:

"CHIP BEAD ELEMENT AND MANUFACTURING METHOD THEREOF",

for which an application for Letters Patent was executed on July 24 and August 5, 1998
(Application No. 09/132,512, filed August 11, 1998), and

WHEREAS, TDK Corporation
(hereinafter referred to as "ASSIGNEE") having a place of business at:

13-1, Nihonbashi 1-chome, Chuo-ku, Tokyo 103-0027, Japan

is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS ($5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I (WE), by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries and the entire right, title and interest in and to any and all Letters Patent which may be granted therefore in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.
I (WE) hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my (our) entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me (us) had this Assignment and share not been made.

Further, I (WE) agree that I (WE) will communicate to said ASSIGNEE or its (his) representatives any facts known to me (us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letter Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

The undersigned hereby grant(s) the firm of Oblon, Spivak, McClelland, Maier & Neustadt, P.C. of Fourth Floor, 1755 Jefferson Davis Highway, Arlington, Virginia 22202 the power to insert on this assignment any further identification, including the application number and filing date, 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.

Date: 24/7/1998

Atsuyuki NAKANO
(Signature of Inventor)

Date: 24/7/1998

Akinori Oi
(Signature of Inventor)

Date: 24/7/1998

Takuya AOKI
(Signature of Inventor)

Date: 5/8/1998

Minoru TAKAYA
(Signature of Inventor)