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U.S. DEPARTMENT OF COMMERCE
U.S. Patent and Trademark Office

102564178

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

1. Name of conveying party(ies): **9-29-03**
 Hans-Jurgen SCHREINER
 Reiner BINDIG
 Jurgen SCHMIEDER

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 25, 2003

2. Name and address of receiving party(ies)

CeramTec AG Innovative Ceramic

Name: Engineering

Internal Address: _____

Street Address:

Fabrikstrasse 23-29
D-73209 PlochingenCity: Germany

:

Zip: _____

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 new application is: _____

A. Patent Application No.(s):

10/615,603

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: James R. Crawford
Fulbright & Jaworski L.L.P.

Internal Docket No: DNAG-256

Street Address:
666 Fifth Avenue
New York, N.Y. 101036. Total number of applications and patents involved: 17. Total fee (37 CFR 3.41) \$ 40.00☒ Enclosed☒ Authorized to be charged to deposit account
(if check not enclosed)☐ Authorized to be charged to credit card
(Form 2038 enclosed)8. Deposit account number: 50-0624

(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.

James R. Crawford
Name of Person Signing

James R. Crawford
Signature

9/24/03
Date

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

10/01/2003 LMI/ELLER 00000145 10615603

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40.00 DP

PATENT
REEL: 014533 FRAME: 0193

Assignment

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor has sold and assigned, and by these presents hereby sells and assigns, unto **CeramTec AG Innovative Ceramic Engineering** with offices at Fabrikstrasse 23-29, D-73207 Plochingen, Germany (hereinafter ASSIGNEE), effective on the date indicated next to my name, all right, title and interest in and to his invention relating to

INSULATION FOR PIEZOCERAMIC MULTILAYER ACTORS

as set forth in his United States Patent Application

☐ executed concurrently herewith

☐ executed _____

☒ Serial No. 10/615,603 filed July 8, 2003

in and to said United States Patent Application including any and all divisions or continuations thereof and in and to any and all Letters Patent of the United States which may issue on any such application or for said invention, including any and all reissues or extensions thereof and all applications for Letters Patent which may hereafter be filed for said invention in any country or countries foreign to the United States, and all Letters Patent which may be granted for said invention in any country or countries foreign to the United States and all divisions, continuations, additions, extensions, renewals and reissues thereof and all rights of priority in any such country or countries based upon the filing of the said application for Letters Patent of the United States which are created by any law, treaty or international convention; to be held and enjoyed by said ASSIGNEE, their successors, legal representatives and assigns to the full end of the term or terms for which any and all such Letters Patent may be granted as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made;

Each of the undersigned hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all such Letters Patent to said ASSIGNEE, their successors or assigns in accordance herewith;

Each of the undersigned warrants and covenants that he has the full and unencumbered right to sell and assign the interests herein sold and assigned and that he has not executed and will not execute any document or instrument in conflict herewith;

Each of the undersigned further covenants and agrees that at any time upon request of said ASSIGNEE, their successors, legal representatives or assigns he will communicate to said

ASSIGNEE, their successors, legal representatives or assigns all information known to them relating to said invention or patent application and that they will execute and deliver any papers, make all rightful oaths, testify in any legal proceedings and perform all other lawful acts deemed necessary or desirable by said ASSIGNEE, their successors, legal representatives or assigns to perfect title to said invention, to said application including divisions, continuations, reissues, extensions, additions and renewals thereof and to any and all Letters Patent which may be granted therefor or thereon, in said ASSIGNEE, their successors, or assigns or to assist said ASSIGNEE, their successors, legal representatives or assigns in obtaining, reissuing or enforcing Letters Patent for said invention;

Each of the undersigned hereby grants to the power to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

Names and Signatures of Inventors:

Signature: X Hans-Jürgen Schreiner
Hans-Jürgen SCHREINER

X 25.7.03
Date of this Assignment

Signature: X Reiner Bindig
Reiner BINDIG

X 25.07.03
Date of this Assignment

Signature: X Jürgen Schmieder
Jürgen SCHMIEDER

X 25.7.03
Date of this Assignment

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NEW YORK, NEW YORK 10103