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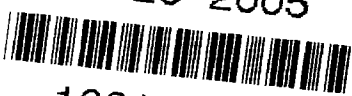
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Marianne HAMMER-ALTMANN
Marc KUEHLEIN
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Name: Robert Bosch GmbH
Internal Address:
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City: D-70442 Stuttgart
Country: Federal Republic of Germany
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Additional name(s) & address(es) attached? Yes No

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Execution dates: May 30, May 30, May 31, 2005.

4. Application numbers or patent numbers:
If this document is being filed together with a new application, the execution date of the application is: May 30, May 30, May 31, 2005.

A. Patent Applications: B. Patent No.(s):
Additional Numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:
Name: Richard L. Mayer, Esq.
Internal Address: KENYON & KENYON
Street Address: One Broadway
City: New York State: New York ZIP: 10004
CUSTOMER NO. 26646

6. Total number of applications and patents involved: 1

7. Total fee (37 C.F.R. 3.41) \$ 40.00
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Richard L. Mayer (Reg. No. 22,490)
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Date 6/16/05

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ASSIGNMENT

WHEREAS, WE,

Marianne HAMMER-ALTMANN
Haendelstr. 30
69469 Weinheim
Federal Republic of Germany
Citizenship: Federal Republic of Germany

Marc KUEHLEIN
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70839 Gerlingen
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Citizenship: Federal Republic of Germany

and

Karolin LOFRUTHE
~~**Am Schultersbusch 5**~~ **Bennrather Str. 62**
~~**40629 Duesseldorf**~~ **40724 Hilden**
Federal Republic of Germany
Citizenship: Federal Republic of Germany

geändert:
31.05.2005
Lof-Ke

have made inventions and discoveries in **METHOD FOR MANUFACTURING PZT-BASED CERAMICS HAVING A LOW SINTERING TEMPERATURE**, for which an application for Letters Patent was filed as PCT International Application No. **PCT/DE2004/000775**, on **April 14, 2004**, and

WHEREAS **ROBERT BOSCH GMBH**, having a place of business at **Postfach 30 02 20, 70442 Stuttgart, Federal Republic of Germany**, and who, together with its successors and assigns, is hereinafter called "Assignee," is desirous of acquiring the title, rights, benefits, and privileges hereinafter recited,

NOW, THEREFORE, for valuable consideration furnished by Assignee to us, receipt and sufficiency of which we hereby acknowledge, we hereby, without reservations:

1. Assign, transfer, and convey to Assignee the entire right, title, and interest in and to said inventions and discoveries, said application for Letters Patent of the United States of America, any and all other applications for Letters Patent on said inventions and discoveries in any and all countries, including all divisional, renewal,

substitute, continuation, and Convention applications based in whole or in part upon said inventions or discoveries, or upon said applications, and any and all Letters Patent, reissues, and extensions of Letters Patent granted for said inventions and discoveries or upon said applications, and every priority right that is or may be predicated upon or arise from said inventions, said discoveries, said applications, and said Letters Patent.

2. Authorize Assignee to file patent applications in any or all countries for any or all of said inventions and discoveries in our names or in the name of Assignee or otherwise as Assignee may deem advisable, under an International Convention or otherwise.

3. Authorize and request the Commissioner of Patents and Trademarks of the United States of America and the empowered officials of all other governments to issue or transfer all said Letters Patent to Assignee, as assignee of the entire right, title, and interest therein or otherwise as Assignee may direct.

4. Warrant that we have not conveyed to others any right, title, or interest in said inventions, discoveries, applications, or patents or any license to use the same or to make, use, or sell anything embodying or utilizing any of said inventions or discoveries; that we have good right to assign the same to Assignee without encumbrance; and that we are aware of no claim to the contrary.

5. Bind our heirs, legal representatives, and assigns, as well as ourselves, to do, upon Assignee's request and at Assignee's expense, but without additional consideration to us or them, all acts reasonably serving to assure that the said inventions and discoveries, the said patent applications, and the said Letters Patent shall be held and enjoyed by Assignee as fully and entirely as the same could have been held and enjoyed by us, our heirs, legal representatives, and assigns if this assignment had not been made; and particularly to execute and deliver to Assignee all lawful application documents including petitions, specifications, and oaths, and all assignments, disclaimers, and lawful affidavits in form and substance as may be requested by Assignee; to communicate to Assignee all facts known to us relating to said inventions and discoveries or the history thereof; to furnish Assignee with any and all documents, photographs, models, samples, and other physical exhibits in our control or in the control of our heirs, legal representatives, or assigns which may be useful for establishing the facts of our conceptions, disclosures, and reduction to

practice of said inventions and discoveries; and to testify to the same in any interference, arbitration, or litigation.

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this
30. day of Y 05. _____, 2005.



Marc KUEHLEIN

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this

31 day of X 05, 2005.

X Karol Lofrute
Karolin LOFRUTHE

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Name of Person Signing

[Signature] **6/16/05**
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