

FORM PTO 1585

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PATENTS ONLY

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

1. Name of conveying party(ies): 12-26-02
Karl-Michael KETTERLE, and Bernd SCHUMANN

2. Name and address of receiving party(ies)

Name: Robert Bosch GmbH

Additional name(s) of conveying parties attached? Yes No

Street Address: Postfach 30 02 20

City: D-70442 Stuttgart State: Federal Republic of Germany ZIP: _____

3. Nature of conveyance:

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

Execution dates: Nov. 22, 2002 and Nov. 13, 2002

4. Application numbers or patent numbers:

If this document is being filed together with a new application, the execution date of the application is:

Date of Execution:

A. Patent Applications

10/267541

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
KENYON & KENYON

Street Address: One Broadway
City: New York State: New York ZIP: 10004

6. Total number of applications and patents involved: 1

7. Total fee (37 C.F.R. 3.41) \$ 40.00

- Enclosed
- Authorized to be charged to deposit account

8. Deposit account number:
11-0600

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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.

Richard L. Mayer (Reg. No. 22,490)
Name of Person Signing

[Signature] Signature 12/20/02 Date

Total Number of pages including cover sheet, attachments, and document: 5

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

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

Commissioner of Patents and Trademarks
Box Assignments
Washington DC 20231

01/08/2003 TDIAR1 00000019 110600 10267541

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ASSIGNMENT

WHEREAS, we,

Karl-Michael KETTERLE
Wernerstr. 25
71636 Ludwigsburg
Federal Republic of Germany
Citizenship: Federal Republic of Germany

and

Bernd SCHUMANN
Hegelstrasse 34
71277 Rutesheim
Federal Republic of Germany
Citizenship: Federal Republic of Germany

have made inventions and discoveries in a **SENSOR ELEMENT OF A GAS SENSOR**, for which an application for Letters Patent was filed in the United States Patent and Trademark Office on October 9, 2002, Serial No. 10/267,541; and

WHEREAS **Robert Bosch GmbH**, having a place of business at **Postfach 30 02 20, D-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, including all divisional, renewal, substitute, and continuation 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, we have hereunto set our hands and seals this

22 day of NOVEMBER, 2002.

Karl Michael Ketterle
Karl-Michael KETTERLE

IN TESTIMONY WHEREOF, we have hereunto set our hands and seals this

13 day of November 2002.



Bernd SCHUMANN