FORM PTO-1585

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U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

1-31-92

102513706 To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof 1-28-03 2. Name and address of receiving party(ies) 1. Name of conveying party(ies): Volkswagen AG Frank KIRSCHKE Internal Address: Wolfsburger Landstr. 22, Helge BERGMANN D 38442 Wolfsburg/Fallersleben, Germany Additional name(s) of conveying parties attached? □ Yes ⋈ No 3. Nature of conveyance: ☐ Merger ☐ Change of Name ☐ Security Agreement Additional name(s) & address(es) attached? □ Yes ⋈ No ☐ Other: Execution dates: July 4, 2003 and May 28, 2003 4. Application numbers or patent numbers: If this document is being filed together with a new application, the execution date of the application is: A. Patent Application: B. Patent No.(s) 10/384,469 Additional Numbers attached? □ Yes □ No 5. Name and address of party to whom correspondence 6. Total number of applications and patents involved: 1 concerning document should be mailed: Name: Richard L. Mayer, Esq. Internal Address: KENYON & KENYON □ Enclosed Street Address: One Broadway City: New York State: New York ZIP: 10004 8. Deposit account number: 11-0600 DO NOT USE THIS SPACE 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correctand any attached copy is a true copy of the original document. Richard L. Mayer, (Reg. No. 22,490) Name of Person Signing Total Number of pages including cover sheet, attachments and document: 5 00000176 110600 7/30/2003 ECOOPER 10384469 FC#8021 40.00 BR Do not detach this portion Mail documents to be recorded with required cover sheet information to: Mail Stop Assignment Recordation Services

Director of the US Patent and Trademark Office

P.O. Box 1450

Alexandria, VA 22313-1450

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ASSIGNMENT

WHEREAS, we,

Frank KIRSCHKE
An der Bergkette 7
31655 Stadthagen
Federal Republic of Germany
Citizenship: Federal Republic of Germany

and

Helge BERGMANN Alter Rautheimer Weg 66b 38126 Braunschweig Federal Republic of Germany Citizenshîp: Federal Republic of Germany

have made inventions and discoveries in METHOD FOR DETECTING A LEAKAGE IN THE INTAKE PORT OF A COMBUSTION ENGINE, AND A COMBUSTION ENGINE EQUIPPED FOR IMPLEMENTING THE METHOD, for which an application for Letters Patent was filed in the United States Patent and Trademark Office on March 6, 2003, Serial No. 10/384,469; and

WHEREAS VOLKSWAGEN AG, having a place of business at Wolfsburger Landstr. 22, 38442 Wolfsburg/Fallersleben, Federal Republic of Germany, and who, together with its successors and assigns, are 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

NY01 569116 v 1

PATENT REEL: 014319 FRAME: 0623 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 said inventions and discoveries, said patent applications, and 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 conception, disclosure, and reduction to practice of said inventions and discoveries; and to testify to the same in any interference, arbitration, or litigation.

NY01 569116 v 1

2

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

04 day of July , 2003.

Frank KIRSCHKE

NY01 569116 v 1

3

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

28 day of May , 2003..

Helge BERGMANN

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RECORDED: 07/28/2003

4

PATENT REEL: 014319 FRAME: 0626