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To the Honorable Commissioner of Patents and Trademarks

Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

1) Bernhard BREITEGGER; 2) Eduard UNGER; 3)
Christian RODUNER; and 4) Alois FÜRHAPTER

2. Name and address of receiving party(ies):

Name: AVL List GmbH

Internal Address: Hans-List-Platz 1

A-8020 Graz, AUSTRIA

Additional names(s) of conveying party(ies)

☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ Other

Street Address:

City:

State:

ZIP:

Execution Date: September 26, 2002 (all four)

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent numbers(s):

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

A. Patent Application No.(s)

B. Patent No.(s)

10/224,404Additional numbers attached? ☐ Yes ☒ No

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

Name: Richard H. Tushin

Internal Address: DYKEMA GOSSETT PLLC

Street Address: 1300 I Street, N.W., Suite 300 West

City: Washington

State: DC

ZIP: 20005

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 3.41):.....\$ 40.00

☐ Enclosed - Any excess or insufficiency should be credited or debited to deposit account☒ Authorized to be charged to deposit account

8. Deposit account number:

04-2223

(Attach duplicate copy of this page if paying by deposit account)

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 H. Tushin, Reg. # 27,297

Name of Person Signing

Signature

October 24, 2002

Date

Total number of pages including cover sheet, attachments, and document:

3

PATENT

REEL: 013431 FRAME: 0659

11/01/2002 LIMEILLER 00000000 04-2223 10224404 10.00 CH 01 FT: 0021

ASSIGNMENT OF PATENT APPLICATION

WHEREAS We 1) Bernhard BREITEGGER; 2) Eduard UNGER; 3) Christian RODUNER; and 4) Alois FÜRHAPTER , of 1) Am Bach 23, A-8501 Lieboch, AUSTRIA; 2) Altenmarkt 55, A-8430 Leibnitz, AUSTRIA; 3) Naglergasse 50, A-8010 Graz, AUSTRIA; and 4) Karl-Frisch-Gasse 12, A-8020 Graz, AUSTRIA, respectively, have made a certain new and useful invention as set forth in an application for United States Letters Patent for an invention entitled **METHOD AND DEVICE FOR ESTABLISHMENT OF A SIGNAL PATTERN BASED ON CRANK ANGLE OF INTERNAL COMBUSTION ENGINE** ; filed 21 August 2002, serial number 10/224,404;

AND WHEREAS AVL List GmbH , of Hans-List-Platz 1, A-8020 Graz, AUSTRIA , is desirous of acquiring the entire right, title and interest in and to said invention and in and to any and all Letters Patent of the United States which may be obtained therefor;

NOW, THEREFORE, for \$10.00 and other good and valuable consideration in hand, receipt of which is hereby acknowledged, we do hereby sell, assign, transfer and set over unto AVL List GmbH , its legal representatives, successors, and assigns, the entire right, title and interest in and to said invention as set forth in the above-mentioned application, and in and to any and all patents of the United States which may be issued for said invention;

We request the Commissioner of Patents and Trademarks to issue any Letters Patent of the United States which may be issued for said invention to said AVL List GmbH , its legal representatives, successors or assigns, as

the sole owner of the entire right, title and interest in and to said patent and the invention covered thereby;

We hereby covenant that we have full right to convey the entire interest herein assigned and have not executed, and will not execute, any agreement in conflict herewith, and we also agree to execute all papers in connection with the application and any continuing or divisional applications thereof and in connection with any interference which may be declared involving this application or any continuing or divisional application thereof;

AND we hereby grant the firm of Dykema Gossett PLLC the power to insert on this Assignment any further identification which may be necessary or desirable to comply with the rules of the United States Patent and Trademark Office for recordation of this Assignment.

26. Sept. 2002
Date:

Bernhard Breitegger
1) Bernhard BREITEGGER

26. Sept. 2002
Date:

Eduard Unger
2) Eduard UNGER

26. Sept. 2002
Date:

Christian Roduner
3) Christian RODUNER

26. Sept. 2002
Date:

Alois Fürhapter
4) Alois FÜRHAPTER

WITNESS:

(1) _____

Date:

(2) _____

Date: