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| <b>PATENT ASSIGNMENT COVER SHEET</b> |
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Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5534407

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| <b>SUBMISSION TYPE:</b>   | NEW ASSIGNMENT                 |
| <b>NATURE OF CONVEYANCE:</b>  | ASSIGNMENT                     |
| <b>CONVEYING PARTY DATA</b>   |                                |
| <b>Name</b>   | <b>Execution Date</b>          |
| MR. GEORG MARTINEWSKI   | 03/29/2019                     |
| <b>RECEIVING PARTY DATA</b>   |                                |
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| <b>City:</b>  | NEUSS                          |
| <b>State/Country:</b>   | GERMANY                        |
| <b>Postal Code:</b>   | 41460                          |
| <b>PROPERTY NUMBERS Total: 1</b>  |                                |
| <b>Property Type</b>  | <b>Number</b>                  |
| <b>Application Number:</b>  | 16462939                       |
| <b>CORRESPONDENCE DATA</b>  |                                |
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| <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i> |                                |
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| <b>ATTORNEY DOCKET NUMBER:</b>  | TS/AVL 1902 US-PAT             |
| <b>NAME OF SUBMITTER:</b>   | NORMAN B. THOT                 |
| <b>SIGNATURE:</b>   | /Norman B. Thot/               |
| <b>DATE SIGNED:</b>   | 05/22/2019                     |
| <b>Total Attachments: 2</b>   |                                |
| source=Executed_Assignment#page1.tif  |                                |
| source=Executed_Assignment#page2.tif  |                                |

ASSIGNMENT

I, Georg Martinewski, a citizen of Germany, residing at Bilker Allee 102, 40217  
Duesseldorf; GERMANY;

and each of us, if more than one person is identified above (hereinafter "ASSIGNOR") in  
consideration of the sum of Ten Dollars (\$10.00), or the equivalent thereof, and other good and  
valuable consideration, the sufficiency of which and receipt of which are hereby acknowledged,  
paid to ASSIGNOR by

AVL EMISSION TEST SYSTEMS GMBH

a Corporation organized under the laws of Germany, located at Graf-Landsberg-Strasse 1c,  
41460 Neuss, GERMANY (hereinafter "ASSIGNEE"), do hereby sell and assign to said  
ASSIGNEE, its successors and assigns, the below indicated right, title, and interest, in and for  
the United States of America only in and to my Invention entitled:

ANALYSIS UNIT

invented by me and described in PCT/EP2017/079759, filed on November 20, 2017 in the  
PCT, including but not limited to the right to claim priority, and all patents, divisions, reissues,  
continuations, continuations-in-part and any extensions thereof and rights of priority therein,  
including the right to sue for past infringement and any such recovery, said interest being my  
entire ownership interest in the same, to be held and enjoyed by said ASSIGNEE, its  
successors, assigns, or other legal representatives, to the full end of the term thereof, as fully  
and entirely as the same would have been held and enjoyed by me if this assignment and sale  
had not been made, including all rights of Assignor to recover for past infringement thereof;

And for the consideration aforesaid, I hereby covenant and agree to and with said  
ASSIGNEE, its successors and assigns, that whenever ASSIGNEE, its counsel or  
representative, or the counsel or representative of its successors or assigns, shall advise that an  
amendment to, or a division of, or any other proceeding or action in connection with an  
application concerning said Invention, including interference proceedings, is lawful and  
desirable, or that a reissue or continuation or extension of such application or patent issuing

therefrom is lawful and desirable, I will sign all papers and drawings, take all rightful oaths and affidavits, and do all acts necessary or required to be done for the procurement of all lawful rights associated with the Invention, or for the reissue or continuation or extension of the same, will do all acts necessary or required to secure in said ASSIGNEE, its successors or assigns, the title to and full benefit of all rights hereby assigned, without charge to said ASSIGNEE or its successors or assigns, but at its or their expense; and I hereby appoint every present or future officer of said ASSIGNEE as my agent to sign all such papers and to do all such necessary acts on my behalf, to the fullest extent permitted by law;

And I hereby authorize and request the Commissioner of Patents and Trademarks and any other granting authority to issue any Letters Patent resulting from said Invention and application(s) concerning same to said ASSIGNEE.

This assignment shall have an effective date corresponding to the last date of execution.

I declare under penalty of perjury under the laws of the United States of America, and under penalty of the laws of any other jurisdiction before which this document may be presented, that I have signed this document as my own free act and that all of the foregoing is true and correct.

Dated: 29.03.2019

  
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Georg Martinewski, Inventor