

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
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MICHAEL M. BECKMAN	02/11/2019
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Property Type	Number
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DATE SIGNED:	08/02/2019
Total Attachments: 2	
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PATENT ASSIGNMENT

WHEREAS, I/we the undersigned, (each hereinafter referred to as "Assignor"), have invented certain new and useful inventions as disclosed and/or claimed in the following patent applications (collectively, the "Applications"):

1. US Provisional Application No.: 62/390,278, entitled; "METHOD OF OPERATION OF AN IE CIRCUIT THAT WORKS IN COMMUNICATIONS WITH THE EMISSION CONTROL SYSTEM IN THE INTERNAL COMBUSTION ENGINE" filed March 24, 2016.
2. International Application No.: PCT/US2017/024069, entitled; "COMMUNICATION INTERFACE BETWEEN AN EMISSION CONTROL SYSTEM AND INTERNAL COMBUSTION ENGINE" filed March 24, 2017.
3. US Patent Application No.: 16/088,029, entitled; "COMMUNICATION INTERFACE BETWEEN AN EMISSION CONTROL SYSTEM AND INTERNAL COMBUSTION ENGINE" filed September 24, 2018.

WHEREAS, **Applied Resonance Technology LLC**, a Minnesota limited liability company having a place of business at 10759 University Avenue NE, Blaine, Minnesota 55434 (hereinafter referred to as "Assignee"), is desirous of acquiring the entire right, title and interest in and to said Applications and any and all patents of the United States and all foreign countries which may issue therefrom or claim priority thereto;

NOW, THEREFORE, for One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Assignor does hereby sell, assign, transfer and set over unto Assignee, the entire right, title and interest in and to the Applications and the inventions disclosed and/or claimed therein, and in and to all patents of the United States and in any and all foreign countries which may issue therefrom, along with all patent applications that relate thereto, including all continuations, continuations-in-part, divisionals, reexaminations and reissues thereof in the United States and the equivalents thereof in any and all foreign countries, together with all rights to income, royalties, damages and payments now or hereafter due or payable with respect thereto, and to all causes of action (either in law or in equity) associated therewith, including all rights to sue, counterclaim, and recover for infringement thereof and to obtain all other possible remedies for Assignee's own use and enjoyment as fully and completely as the same would have been held by Assignor had this Assignment and sale not been made. The said entire right, title and interest shall vest irrevocably in Assignee, and this Assignment shall inure to the benefit of Assignee, its successors, assigns and legal representatives, and shall be binding upon Assignor, and Assignor's successors, assigns, and legal representatives.

Assignor covenants and agrees, upon request by Assignee, without additional compensation, but at no expense to Assignor, to execute or assent to foreign applications, and to execute all papers, assignments or other documents as requested by Assignee, and Assignor covenants to provide testimony by affidavit or otherwise on behalf of Assignee in any proceeding before the United

States Patent and Trademark Office ("USPTO"), foreign patent authority, state or federal court, or other decision-making body, and that, in general, Assignor covenants to cooperate fully with Assignee as necessary or desirable to vest the enjoyment of, and to secure, perfect, maintain or enforce said entire right, title and interest in and to said Applications and any patents issuing therefrom or related thereto in and to Assignee. Assignor further covenants that no instrument has been executed that is contrary to this Assignment nor has Assignor taken any action contrary to this Assignment nor will Assignor do so in the future.

The Commissioner of Patents and the officials with comparable authority over patents in foreign countries are hereby authorized and directed to issue in the name of Assignee, or as otherwise directed by Assignee, any and all patents which may issue from said Applications.

Assignor:

Signed: Michael M. Beckman
Michael M. Beckman

Date: 2/11/2019

Assignee:

Applied Resonance Technology LLC

Signed: Michael M. Beckman
Michael M. Beckman

Date: 02/11/2019

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