PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|------------------|----------------|
| ULRICH WIEDUWILT | 11/07/2014 |

RECEIVING PARTY DATA

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PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 14561411 |

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| ATTORNEY DOCKET NUMBER: | 022862-2119-US00 |
|-------------------------|------------------|
| NAME OF SUBMITTER: | DAVID R. PRICE |
| SIGNATURE: | /david r. price/ |
| DATE SIGNED: | 12/05/2014 |

Total Attachments: 1

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PATENT 503087687 REEL: 034385 FRAME: 0992

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ASSIGNMENT

Pursuant to my obligation to Robert Bosch GmbH (hereinafter referred to as "Assignee"), a German corporation having its principal place of business at:

Postfach 30 02 20 70442 Stuttgart Germany

and for other valuable and sufficient consideration, receipt whereof is hereby acknowledged, I:

Ulrich Wieduwilt Klarenbergstr. 239/1 73529 Schwaebisch Gmuend Germany

confirm my obligation to and hereby sell, assign and convey, unto Assignee, its successors and assigns, my entire right, title and interest in the U.S. -

- (1) in and to inventions described in a patent application titled "ULTRASONIC JOINING METHOD AND ULTRASONIC JOINING DEVICE" for which I filed United States Patent Application No. 14/561,411, (Atty. File No. 022862-2119-US00) (hereinafter the "U.S. utility patent application");
- (2) in and to the U.S. utility patent application, in and to all other patent applications (including divisional, continuation, continuation-in-part, 35 U.S.C. §111(b) provisional, 35 U.S.C. §111(a), and reissue applications) based upon said inventions, and in and to the patent or patents to be granted thereon, to the full end of the term or terms for which said patent or patents may be granted;

I hereby authorize the assignee or attorney of record to insert in the appropriate place in this document the application number of my application after execution of this Assignment. I hereby agree that I will, upon demand of Assignee, its successors or assigns, and without further consideration to me, execute any and all papers that may be necessary, or deemed by Assignee, its successors or assigns, to be necessary, to a complete fulfillment of the intent and purposes of this Assignment, it being understood that any expense incident to the execution of such papers shall be paid by Assignee, its successors and assigns, and not by me.

The Commissioner of Patents and Trademarks of the United States is hereby authorized and requested to issue said patent or patents to Assignee.

1 07.11.2014

RECORDED: 12/05/2014

Date

Menit frieder will

Ulrich Wieduwilt

PATENT REEL: 034385 FRAME: 0993