PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
PETER SCHLUCK	10/11/2013
MICHAEL HONER	10/09/2013
THOMAS KIEDROWSKI	10/10/2013

RECEIVING PARTY DATA

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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14117379

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Signature:	/Daniel J. Greenhalgh/
Date:	11/13/2013 PATENT

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14117379

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Total Attachments: 5

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> PATENT REEL: 031589 FRAME: 0451

ASSIGNMENT

Pursuant to our obligation to Robert Bosch GmbH (hereinafter referred to as "Assignee"), a German corporation having a mailing address at:

> Postfach 30 02 20 70442 Stuttgart **GERMANY**

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

> Peter Schluck In Den Kirchhoflaendern 18 72649 Wolfschlugen Germany

Michael Honer Bachstrasse 17 70839 Gerlingen Germany

Thomas Kiedrowski Strich-Chapell-Str. 15/1 74372 Sersheim Germany

confirm our obligation to and hereby sell, assign and convey, unto Assignee, its successors and assigns, except as set forth below, our entire right, title and interest -

- (1) in and to an invention entitled "Brake Disc and Method for Producing a Brake Disc" for which we have executed a United States patent application, said United States application being assigned U.S. Serial No. 14/117,379 (We hereby authorize Assignee to insert the serial number in the preceding blank) and which is disclosed in Patent Cooperation Treaty Application No. PCT/EP2012/054434, filed on March 14, 2012;
- (2) in and to said United States patent application, in and to all other patent applications (including divisional, continuation, continuation-in-part, §111(b) provisional, §111(a), reissue applications, and international patent applications designating the United

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States) based upon said invention, and in and to the patent or patents to be granted thereon,

including reissues thereof, if any, to the full end of the term or terms for which said patent or

patents may be granted; and

(3) in and to all patent applications on said invention now or hereafter filed in

countries foreign to the United States of America, including patent applications filed under

the Patent Cooperation Treaty, the European Patent Convention or any other international

treaty, and including the right to claim priority of said United States application, and in and to

any and all patents granted on said applications to the full end of the terms for which said

patents may be granted.

We hereby agree that we will, upon demand of Assignee, its successors or

assigns, and without further consideration to us, 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 us.

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7.114 Mule 1

Date

Peter Schluck

Michael Honer

Date

Thomas Kiedrowski

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