PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
YUTAKA TANAKA	03/31/2014
TOMOHIRO NAKAMURA	04/03/2014
YOSHIHITO FUJISHIRO	03/27/2014
YASUO TOYOSHIMA	03/27/2014
YASUSHI HIRATSUKA	03/27/2014

RECEIVING PARTY DATA

Name:	BOSCH CORPORATION	
Street Address:	6-7, SHIBUYA 3-CHOME	
Internal Address:	SHIBUYA-KU	
City:	TOKYO	
State/Country:	JAPAN	
Postal Code:	150-8360	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14345971

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	030413-3039-US00
NAME OF SUBMITTER:	DAVID R. PRICE
SIGNATURE:	/david r. price/
DATE SIGNED:	04/04/2014

Total Attachments: 4

PATENT REEL: 032602 FRAME: 0194

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PATENT REEL: 032602 FRAME: 0195

ASSIGNMENT

Pursuant to our obligation to Bosch Corporation (hereinafter referred to as "Assignee"), a Japanese corporation having its principal place of business at:

> 6-7, Shibuya 3-chome Shibuya-ku Tokyo 150-8360 Japan

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

we:

Yutaka Tanaka 13-26, Yakyu-cho 3-chome Higashimatsuyama-shi Saitama 3558603 Japan

Tomohiro Nakamura 13-26, Yakyu-cho 3-chome Higashimatsuyama-shi Saitama 3558603 Japan

Yoshihito Fujishiro 13-26, Yakyu-cho 3-chome Higashimatsuyama-shi Saitama 355-8603 Japan

Yasuo Toyoshima 13-26, Yakyu-cho 3-chome Higashimatsuyama-shi Saitama 355-8603 Japan

Yasushi Hiratsuka 13-26, Yakyu-cho 3-chome Higashimatsuyama-shi Saitama 355-8603 Japan

confirm our obligation to and hereby sell, assign and convey, unto Assignee, its successors and assigns, our entire right, title and interest in the United States -

(1) in and to inventions described in a patent application titled METHOD OF

DIAGNOSING GLOW PLUG AND GLOW PLUG DRIVE CONTROL DEVICE the specification of

PATENT REEL: 032602 FRAME: 0196 which was filed with our authority on August 13, 2012 as International Patent Application No. PCT/JP2012/070593 (Atty. File No. 030413-3039-US00) (hereinafter the "PCT application");

(2) in and to the PCT application, in and to all other U.S. patent applications (including PCT national phase, divisional, continuation, continuation-in-part, §111(b) provisional, §111(a), and reissue applications) based upon said invention or claiming the benefit of the PCT application, 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;

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.

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

14.3.31	A 7 =
Date	Yutaka Tanaka
Date	Tomohiro Nakamura
	LL 111
14.3.27	下下 老人
Date	Yoshihito Fujishiro
3.27, 2014	電島 康夫
Date	Yasuo Toyoshima
27th March 14	平塚泰士
Date	Yasushi Hiratsuka

ASSIGNMENT

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

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Yasushi Hiratsuka 13-26, Yakyu-cho 3-chome Higashimatsuyama-shi Saitama 355-8603 Japan

confirm our obligation to and hereby sell, assign and convey, unto Assignee, its successors and assigns, our entire right, title and interest in the United States -

(1) in and to inventions described in a patent application titled METHOD OF
DIAGNOSING GLOW PLUG AND GLOW PLUG DRIVE CONTROL DEVICE the specification of

PATENT REEL: 032602 FRAME: 0198 which was filed with our authority on August 13, 2012 as International Patent Application No. PCT/JP2012/070593 (Atty. File No. 030413-3039-US00) (hereinafter the "PCT application");

(2) in and to the PCT application, in and to all other U.S. patent applications (including PCT national phase, divisional, continuation, continuation-in-part, §111(b) provisional, §111(a), and reissue applications) based upon said invention or claiming the benefit of the PCT application, 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;

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.

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

Date	Yutaka Tanaka
3rd. April. 2019 Date	Tomohiro Nakamura
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Date	Yoshihito Fujishiro
Date	Yasuo Toyoshima
Date:	Yasushi Hiratsuka