

**PATENT COOPERATION TREATY**

**TRANSLATION**

From the  
INTERNATIONAL SEARCHING AUTHORITY

**PCT**

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

To:

Date of mailing (day/month/year) **See form PCT/ISA/210**

Applicant's or agent's file reference <b>311226</b>		<b>FOR FURTHER ACTION</b> See paragraph 2 below
International application No. <b>PCT/EP2006/062146</b>	International filing date (day/month/year) <b>09.05.2006</b>	Priority date (day/month/year) <b>27.06.2005</b>
International Patent Classification (IPC) or both national classification and IPC <b>F23Q7/00 H05B3/14</b>		
Applicant <b>ROBERT BOSCH GMBH</b>		

1. This opinion contains indications relating to the following items:

- Box No. I Basis of the opinion
- Box No. II Priority
- Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- Box No. IV Lack of unity of invention
- Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- Box No. VI Certain documents cited
- Box No. VII Certain defects in the international application
- Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/EP	Date of completion of this opinion	Authorized officer
Facsimile No.		Telephone No.

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/EP2006/062146

Box No. I	Basis of this opinion
1.	<p>With regard to the <b>language</b>, this opinion has been established on the basis of:</p> <p><input checked="" type="checkbox"/> the international application in the language in which it was filed</p> <p><input type="checkbox"/> the translation of the international application into _____, which is the language of a translation furnished for the purposes of international search (Rule 12.3(a) and 23.1(b)).</p>
2.	<p>With regard to any <b>nucleotide and/or amino acid sequence</b> disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:</p> <p>a. type of material</p> <p><input type="checkbox"/> a sequence listing</p> <p><input type="checkbox"/> table(s) related to the sequence listing</p> <p>b. format of material</p> <p><input type="checkbox"/> on paper</p> <p><input type="checkbox"/> in electronic form</p> <p>c. time of filing/furnishing</p> <p><input type="checkbox"/> contained in the international application as filed</p> <p><input type="checkbox"/> filed together with the international application in electronic form</p> <p><input type="checkbox"/> furnished subsequently to this Authority for the purposes of search</p>
3.	<p><input type="checkbox"/> In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.</p>
4.	<p>Additional comments:</p>

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International application No. PCT/EP2006/062146
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<b>Box No. V</b>	<b>Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</b>
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1. Statement			
Novelty (N)		Claims <u>1-10</u>	YES
		Claims _____	NO
Inventive step (IS)		Claims _____	YES
		Claims <u>1-10</u>	NO
Industrial applicability (IA)		Claims <u>1-10</u>	YES
		Claims _____	NO

2. Citations and explanations:

1. Reference is made to the following documents:

D1: DE 198 44 347 A1 (ROBERT BOSCH GMBH) 30 March 2000 (2000-03-30) cited in the application

D2: US 2001/050275 A1 (UHL GUNTHER ET AL) 13 December 2001 (2001-12-13)

INDEPENDENT CLAIM 1

2.1 The present application fails to comply with the requirements of PCT Article 33(1), because the subject matter of claim 1 does not involve an inventive step within the meaning of PCT Article 33(3).

2.2.1 D1 is considered to be the closest prior art to the subject matter of claim 1. It describes (*the references between parentheses apply to this document*) a glow plug that has a housing (**see abstract, claim 1 and figure 1**), a connection element and a heating body connected to the housing, wherein the heating body is electrically connected, on one side, to the connection element

Box No. V

Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability;  
citations and explanations supporting such statement

and, on the other side, to the housing (**see abstract, claim 1 and figure 1**).

2.2.2 The subject matter of claim 1 thus differs from that known from D1 in that a circuit carrier is arranged inside the housing. However, these features have previously been used in a similar glow plug; see D2 (**page 1, paragraph [0017] and figure 2**). If a person skilled in the art sought to achieve the same aim in a glow plug as per document D1, it would be obvious to them to apply these features to like effect to the subject matter of D1. In this way, they would arrive at a glow plug according to claim 1 without involving an inventive step.

**DEPENDENT CLAIMS 2-10**

3. Claims 2-10 do not contain any features that, in combination with the features of any claim to which they refer, meet the PCT requirements for inventive step.