Title: DUAL-SPARK PRE-CHAMBERED SPARK IGNITER

Abstract: A dual-electrode spark igniter (100) has two electrodes, center electrode (110) and secondary electrode (120) extending from the plug body (140). During a spark event, electricity flows across a first spark gap from the first electrode to the second electrode. Electricity also flows across a second spark gap from the second electrode to the ground electrode (130).
Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report:
18 January 2007

For two-letter codes and other abbreviations, refer to the “Guidance Notes on Codes and Abbreviations” appearing at the beginning of each regular issue of the PCT Gazette.
INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER
IPC: H01T 13/46 (2006.01), 13/20 (2006.01)
USPC: 313/123,141,143;123/169EL,169R
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED
Minimum documentation searched (classification system followed by classification symbols)
U.S.: 313/123,141,143; 123/169EL, 169R

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
<thead>
<tr>
<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y</td>
<td>US 4,275,338 (WATANABE et al.) 23 June 1981 (23.06.1981), column 2 lines 33-68, column 3 lines 1-22.</td>
<td>1,7</td>
</tr>
<tr>
<td>Y</td>
<td>WO 85/02066 (BAKKER) 9 May 1985 (09.05.1985), whole document.</td>
<td>1-10</td>
</tr>
<tr>
<td>A</td>
<td>US 5,918,571 (BELOW) 6 June 1999 (06.06.1999) Fig. 12, column 5 lines 34-62.</td>
<td>1-10</td>
</tr>
</tbody>
</table>

Special categories of cited documents:

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"O" document referring to an oral disclosure, use, exhibition or other means
"P" document published prior to the international filing date but later than the priority date claimed

Further documents are listed in the continuation of Box C. See patent family annex.

Date of the actual completion of the international search
12 October 2006 (12.10.2006)

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Date of mailing of the international search report
09 Nov 2006

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Form PCT/ISA/210 (second sheet) (April 2005)
Continuation of B. FIELDS SEARCHED Item 3:
EPO, JPO and DERWENT
search terms: dual electrode, pre-combustion, auxiliary chamber