A hybrid fuel cell (10) including at least one cathode (11), at least one anode (13), and at least one oxygen evolution electrode (12). The oxygen evolution electrode (12) works in combination with the anode (13) to produce hydrogen and/or oxygen as an electrolyzer while the anode (13) and cathode (11) work in combination to provide an electrical current as a fuel cell. The cathode (11) and the oxygen evolution electrode (12) may operate alone or in tandem during operation of the hybrid fuel cell (10).
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

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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:        H01M 12/00(2006.01), 8/18(2006.01), 8/04(2006.01)
   USPC: 429/9, 27, 44, 218.2, 218.1, 223, 231.6, 19, 21, 17, 224, 229
   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.: 429/9, 27, 44, 218.2, 218.1, 223, 231.6, 19, 21, 17, 224, 229
   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>X</td>
<td>US 2003/0180584 A1 (SUZUKI et al) 25 September 2003, section 0016-0020, 0156, 0167, Fig. 1-3</td>
<td>1-3, 6-26</td>
</tr>
<tr>
<td>Y</td>
<td>US 2004/0248005 A1 (OVSHEINSKY et al) 09 December 2004, section 0024.</td>
<td>6, 7</td>
</tr>
<tr>
<td>Y</td>
<td>US 6,447,942 B1 (OVSHEINSKY et al) 10 September 2002, column 14, lines 50-53, column 8, lines 46-58, column 14, lines 15-18</td>
<td>8-12, 14-22, 25, 26</td>
</tr>
</tbody>
</table>

Further documents are listed in the continuation of Box C.

See patent family annex.

Date of the actual completion of the international search
08 May 2006 (08.05.2006)

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