Title: CHECK VALVE MODULE

Abstract: A check valve module (10) includes two end surfaces (18, 26) and two check valves (40a, 40b). One check valve (40a) permits flow in only one direction between the two end surfaces (18, 26), the other check valve (40b) permits flow only in the other direction. Between the two end surfaces, a sealing ring (30) is provided on the outer surface of the module (10).
Published:
— With international search report.

(88) Date of publication of the international search report:
18 January 2001

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(7) : F16K 17/18  
US CL : 137/454.2, 493.8; 417/571  
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. : 137/454.2, 493.8; 417/571, 569  
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)

**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 - Y</td>
<td>US 1,638,114 A (DUNLAP et al.) 09 August 1927, see page 1, lines 43-80.</td>
<td>1-2, 7-8, 14, 21-27</td>
</tr>
<tr>
<td>Y</td>
<td>US 4,862,911 A (YIE) 05 September 1989, see col. 5, lines 1-18.</td>
<td>5-6, 20, 22</td>
</tr>
<tr>
<td>Y</td>
<td>US 3,250,225 A (TAPLIN) 10 May 1966, see col. 2, line 64 to col. 3, line 15.</td>
<td>17</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**  
18 APRIL 2000

**Date of mailing of the international search report**  
21 AUG 2000

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