Abstract: The invention relates to a seal for use with a pipe and flange assembly (40). The seal is intended to prevent leakage during axial movement of the pipe relative to a flange (40). The invention comprises a central cylindrical elastomeric member (10) located between two circular elastomeric end rings (20 and 30).
Date of publication of the international search report:
14 August 2008
INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER
IPC: F16J 19/18 (2006.01), F16L 21/02 (2006.01), 5/02 (2006.01), 17/00 (2006.01), E21B 33/12 (2006.01)

USPC: Please See Continuation Sheet
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)

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

Electronic database consulted during the international search (name of database 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>A</td>
<td>US 2,420,929 A (Buffington et al) 20 May 1947 (20.05.1947), Entire document.</td>
<td>1-20</td>
</tr>
<tr>
<td>A</td>
<td>US 4,040,636 A (Albertson et al) 09 August 1977 (09.08.1977), Entire document</td>
<td>1-20</td>
</tr>
<tr>
<td>A</td>
<td>US 4,635,945 A (Beck) 13 January 1987 (13.01.1987), Entire document.</td>
<td>1-20</td>
</tr>
<tr>
<td>A</td>
<td>US 5,309,993 A (Coon et al) 10 May 1994 (10.05.1994), Entire document.</td>
<td>1-20</td>
</tr>
<tr>
<td>A</td>
<td>US 5,551,703 A (Morvant) 03 September 1996 (03.09.1996), Entire document.</td>
<td>1-20</td>
</tr>
</tbody>
</table>

D. See patent family annex

Further documents are listed in the continuation of Box C.

Date of the actual completion of the international search
02 January 2008 (02.01.2008)

Name and mailing address of the ISA/US
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Form PCMS A/2.10 (second sheet) (April 2005)
The invention relates to a seal for use with a pipe and flange assembly (40). The seal is intended to prevent leakage during axial movement of the pipe relative to a flange (40). The invention comprises a central cylindrical elastomeric member (10) located between two circular elastomeric end rings (20 and 30).
Continuation of B. FIELDS SEARCHED Item 3:
East search terms: Chevron, seal, packing, hardness, angle, curve, anti-extrusion, extrusion prevent, back-up, double taper or tapered or tapers

Continuation of USPC:
277/327,337-338,340,342.5 10-51 1,529,532,607,624-627,644 647,285/345-346,35 1-352; 166/1 15-1 16, 14-1-142