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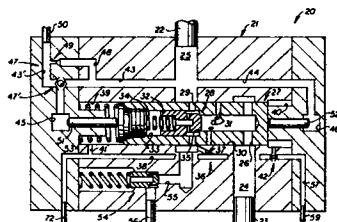
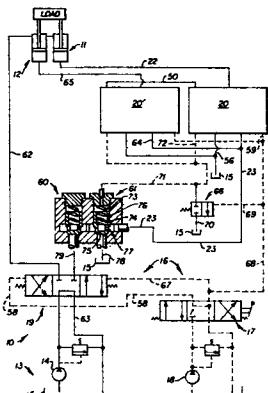
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54) Fluid circuit with load check valve.

57) The spool-type load check valve (20) of this invention, used in conjunction with additional check valves (60, 61) overcomes the problem of leakage in conventional spool type check valves by providing a series of interconnecting passages and chambers (36) for communicating equalized fluid pressure from a cylinder (11) to either end of the spool (27) thereof to provide for minimal leakage. When a pair of such cylinders (11, 12) are utilized, the load check valves (20, 20') associated therewith are interconnected by a balance line (50) and resolver valves (47') ensure equalization of fluid pressure in the cylinders upon actuation thereof and also a gradual descent of a load carried by the cylinders upon loss of fluid pressure between the check valves.



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EUROPEAN SEARCH REPORT

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EP 81 30 1185

DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int. Cl.)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
X	<p><u>DE - A - 2 554 579 (BUCHHOLZ)</u></p> <p>* the whole document *</p> <p>---</p> <p><u>DE - A - 2 036 547 (KRUPP)</u></p> <p>* the whole document *</p> <p>---</p> <p><u>US - A - 3 500 721 (ALLEN)</u></p> <p>* the whole document *</p> <p>---</p> <p><u>US - A - 3 943 825 (BIANCHETTA)</u></p> <p>* the whole document *</p> <p>---</p> <p><u>DE - B - 1 196 927 (MARTENS)</u></p> <p>* the whole document *</p> <p>---</p>	<p>1,3,4</p> <p>1-4,7, 9</p> <p>1,2,7, 9</p> <p>6</p> <p>5</p>	<p>F 15 B 11/16 13/01</p> <p>TECHNICAL FIELDS SEARCHED (Int. Cl.)</p> <p>F 15 B</p>
D	<p><u>US - A - 4 102 250 (SCHEXNAYDER)</u></p> <p>* the whole document *</p> <p>-----</p>	1-9	<p>CATEGORY OF CITED DOCUMENTS</p> <p>X: particularly relevant A: technological background O: non-written disclosure P: intermediate document T: theory or principle underlying the invention E: conflicting application D: document cited in the application L: citation for other reasons</p> <p>&: member of the same patent family, corresponding document</p>
 <p>The present search report has been drawn up for all claims</p>			
Place of search	Date of completion of the search	Examiner	
The Hague	23-12-1981	KNOPS	