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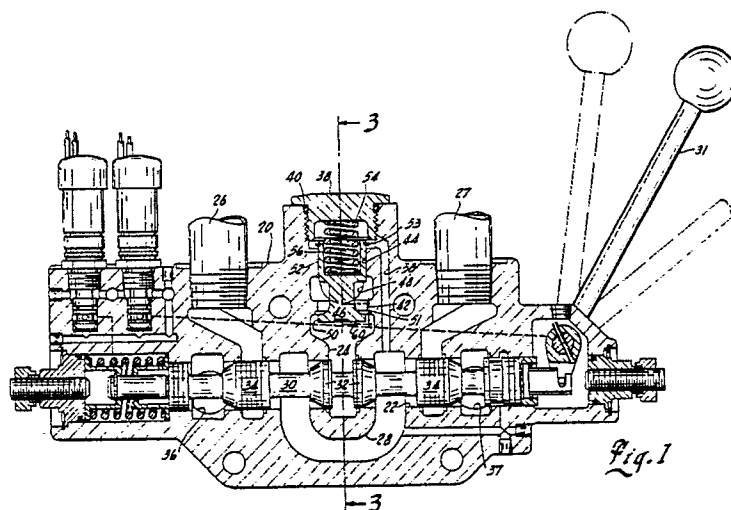
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54 **Compensated individual segment flow regulator.**

57 An individual segment flow regulator is shown having a two landed spool (46) and two landed bore, all with the same nominal diameter, a plug (38), a spring (54) and a sensing passage (58) from the main spool (30) of the valve. Supply oil entering between the two lands (42, 44) of the bore is separated from a sensing pressure by one spool land (52) which is slidable within the bore. The other spool land (50) meters the supply fluid. The metering land (50) of the regulator spool opens away from the valve bore land to allow supply fluid through and can shut off the supply. A spring chamber (56)

above the spool senses the load pressure which opens the metering spool, thereby increasing the flow and therefore the pressure drop across the main spool area opening. Feedback pressure developed at the bottom of the metering land of the spool is used to close down the regulator spool as the flow, and therefore the pressure drop, across the main spool increases beyond the pre-load force of the bias spring. The feedback land at the bottom of the spool is also the metering land that controls supply pressure to the regulated pressure.





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EUROPEAN SEARCH REPORT

Application Number

EP 88 30 9199

DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int. Cl.4)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
X	FR-A-2 180 912 (SPERRY RAND) * Page 4, lines 1-23; page 6, line 10 - page 7, line 5 *	1,3,6,8 ,11,13, 14,16, 17,19, 23	F 15 B 11/05
A	DE-A-3 540 061 (MANNESMANN)		
A	DE-A-3 507 121 (MANNESMANN)		
A	DE-A-1 956 621 (KOEHRING)		
A	US-A-4 519 420 (PETRO)		
A	US-A-4 253 482 (STEPHENS)		
A	US-A-4 154 262 (BLUME)		
A	US-A-3 901 264 (STEPHENS)		
A	FR-A-2 559 595 (KOEHRING)		TECHNICAL FIELDS SEARCHED (Int. Cl.4)
A	GB-A-1 033 109 (DOWTY)		F 15 B
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 17-09-1990	Examiner KNOPS J.
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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