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㉞ **Proportional follower spool valve system.**

㉞ A proportional follower spool valve system having a main spool (12) slidable between end chambers (55, 56) maintained at substantially return pressure. First fluid connections (40) are controlled by the main spool (12) and they are effective to control output fluid flow in accordance with the position of the main spool (12). A pilot spool (11) is slidable within an inner passage (12a) of the main spool. A first (20) and a second (21) driving chamber is formed by the main spool (12) each having a driving area substantially less than the largest cross-sectional solid area of the main spool (12). Second fluid connections (11a, 11b) are controlled by the pilot spool (11) for admitting fluid under pressure 1/ to the first chamber (20) when the pilot spool moves in a first direction away from the first chamber and 2/ to the second chamber (21) when the pilot spool (11) moves in a second direction away from the second chamber (21). Each of the first and second driving chambers are disposed between a respective end chamber and a passage for return pressure.

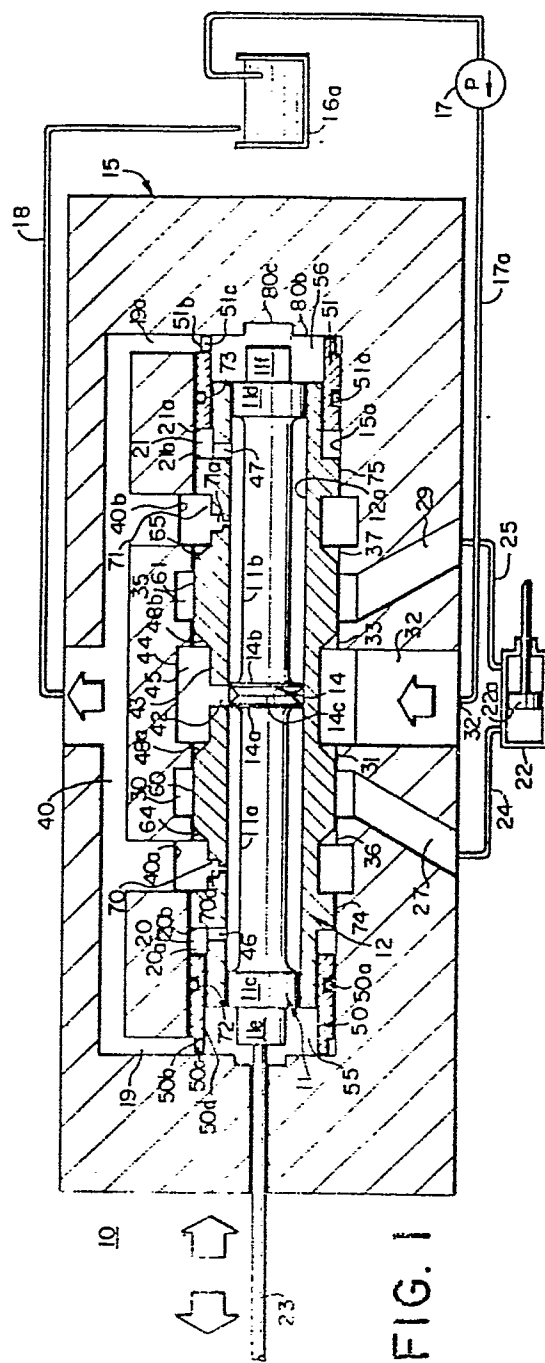


FIG. 1



DOCUMENTS CONSIDERED TO BE RELEVANT			EP 84420120.2
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)
A	US - A - 2 600 348 (WALTHERS) * Fig., belonging text * --	1,2,5, 7,10	F 15 B 9/02 F 16 K 11/07 F 15 B 13/042
A	US - A - 3 152 610 (MC AFEE, JR.) * Totality * --	1,2,7, 10	
D,A	US - A - 2 526 709 (TAIT) * Fig. 2-4 * --	1,2,5, 7	
A	US - A - 3 060 969 (ASLAN) * Totality * --	1,2,5- 7,10,11	
D,A	US - A - 3 530 895 (ROTHROCK) * Fig., belonging text * --	1,2,7	
D,A	US - A - 3 749 128 (SALLBERG et al.) * Column 1, line 64 - column 2, line 56; fig. 1 * --	1,2,5, 7	
A	US - A - 3 089 517 (LUDWIG) * Totality * --	1,2,7	
D,A	US - A - 2 555 755 (MOORE) * Fig. 1-11, belonging text * ----	1,2,7	
The present search report has been drawn up for all claims			
Place of search VIENNA		Date of completion of the search 17-12-1987	Examiner ROUSSARIAN
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			