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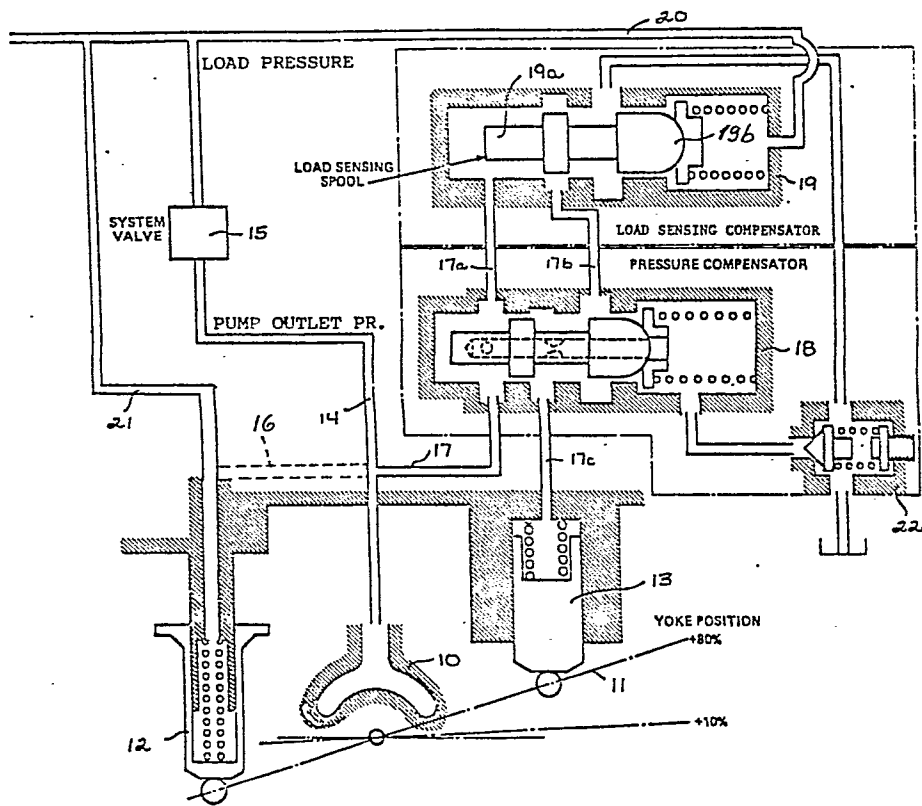
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(54) **Variable displacement pump system.**

(57) A variable displacement pump system including a pressure and a load sensing compensator (18, 19) for operating a pump adjusting mechanism (11 – 13) to vary the displacement by applying hydraulic fluid to a hydraulic positioning piston (13) and a spring biased piston (12). The load sensing compensator (19) senses the pressure drop of the working fluid flow across a system valve (15) and applies a modulated pressure to the hydraulic positioning piston (13). The spring biased piston (12) is connected (line 21) to a load sensing line (20).





DOCUMENTS CONSIDERED TO BE RELEVANT			EP 86116785.6
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 4)
D, Y	US - A - 3 554 093 (LONNEMO) * Totality * --	1, 2	F 04 B 49/08 F 04 B 1/26
Y	US - A - 2 502 546 (ADAMS) * Totality; especially fig. 1, pos.no. 44; fig. 2, pos.no. 58 * --	1, 2	
A	US - A - 3 067 693 (LAMBECK) * Totality; especially fig. 1 * --	1, 2	
A	US - A - 4 072 442 (HORIUCHI) * Totality * ----	1, 2	
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (Int. Cl. 4) F 04 B 1/00 F 04 B 49/00 F 16 H 39/00
Place of search VIENNA		Date of completion of the search 25-04-1989	Examiner WERDECKER
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			