Title (en)
MANIFOLDED MULTIPLE HYDRAULIC PUMP STRUCTURE

Publication
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Application
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Priority
US 7800239 W 19781226

Abstract (en)
[origin: WO8001401A1] An improved hydraulic pump structure for hydraulic systems which require a plurality of rotary pumps has a pump casing assembly (20) consisting of a plurality of pump casing elements (23-29) which are fastened together in abutting relationship to define a first pump cavity (54) and a second pump cavity (55a) with aligned drive shaft holes (56-61) and a drive shaft (62-63) which is journalled in the holes (56-61) and carries a rotary pump member (76-77 or 80-81) in each cavity (54 and 55a). The casing elements (23-29) are manifolded to provide a first fluid inlet passage (82), a first fluid delivery passage (84) which terminates in a port in a fluid delivery end plate (29), a second fluid inlet passage (86) which has an entrance opening (H6) in the fluid delivery end plate (29), and a second fluid outlet passage (87) which terminates in a port in the fluid delivery end plate (29). There may be two subassemblies (21 and 22) with two pumps in each, secured together in face abutting relationship with an axially interengaged driving connection (62a-63a) between drive shaft segments (62 and 63) in the two subassemblies (21 and 22) and with fluid delivery passages (83 and 84) extending from one assembly through the other.

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