

Title (en)
Hydraulic drive.

Title (de)
Hydraulischer Antrieb.

Title (fr)
Commande hydraulique.

Publication
EP 0158054 A1 19851016 (DE)

Application
EP 85101751 A 19850216

Priority
DE 3408909 A 19840310

Abstract (en)
[origin: US4716812A] A hydraulic drive includes a pressure housing having a blind axial recess formed therein with a wall and a bottom, an accumulator piston with first and second opposite ends disposed in the recess, an energy accumulator in the form of springs disposed symmetrical to the central axis of the accumulator piston for continuously engaging the accumulator piston braced against the springs, a working piston in the form of a differential piston guided in the recess having a piston rod passing through the accumulator piston and disposed centrally in the pressure housing, the piston rod, the pressure housing and the accumulator piston defining the wall of the recess, the piston rod, the pressure housing, the first end of the accumulator piston and the working piston defining an accumulator space in the form of a hydraulic accumulator providing pressure energy for the hydraulic drive without requiring an external energy supply, the second end of the accumulator piston and the wall and the bottom of the recess defining a plenum for receiving spent hydraulic fluid at low pressure, and the accumulator piston separating the accumulator space from the plenum.

Abstract (de)
Die Erfindung betrifft einen hydraulischen Antrieb, insbesondere zur Betätigung von elektrischen Hochspannungs-Leistungsschaltern, der gemeinsam mit einem Hydraulikspeicher mit mechanischer Druckhaltevorrichtung in einem gemeinsamen Druckgehäuse untergebracht ist, in das auch das Förderorgan für das Hydraulikfluid eine Hockdruckpumpe, sowie eine Steuereinheit mitsamt den erforderlichen Hydraulikverbindungen integriert sind, und das zum Schutz vor Fremdeinflüssen mit einer Abdeckhaube gekapselt ist. Zusätzlich kann der Anschluß eines oder mehrerer externer Hydraulikspeicher zwecks Erhöhung der Schaltzahl vorgesehen sein.

IPC 1-7
F15B 15/17; **H01H 33/34**

IPC 8 full level
H01H 3/24 (2006.01); **F15B 15/14** (2006.01); **F15B 15/17** (2006.01); **H01H 33/34** (2006.01)

CPC (source: EP US)
H01H 33/34 (2013.01 - EP US)

Citation (search report)
CH 537089 A 19730515 - SIEMENS AG [DE]

Cited by
DE102011121777A1; EP0240884A3; CN104673733A; DE102011011311A1; EP0827168A1; CN104718589A; DE102011121777B4; CN100437869C; EP0829892A1; EP0829893A1; DE102008035871B4; US9620302B2; WO2010012349A1; WO2012079667A1; WO2020211992A1

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CH DE FR LI SE

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DOCDB simple family (application)
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