

Title (en)
HYDRAULIC DRIVE

Publication
EP 0158054 B1 19870114 (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.

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 (examination)
DE 2828958 A1 19800110 - SIEMENS AG

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

Designated contracting state (EPC)
CH DE FR LI SE

DOCDB simple family (publication)
EP 0158054 A1 19851016; **EP 0158054 B1 19870114**; DE 3408909 A1 19850912; DE 3560057 D1 19870219; JP H076531 B2 19950130; JP S60208613 A 19851021; US 4716812 A 19880105

DOCDB simple family (application)
EP 85101751 A 19850216; DE 3408909 A 19840310; DE 3560057 T 19850216; JP 4632485 A 19850308; US 71003685 A 19850311