

Title (en)
ELECTROHYDRAULIC MACHINE.

Title (de)
ELEKTROHYDRAULISCHES GERÄT.

Title (fr)
APPAREIL ELECTROHYDRAULIQUE.

Publication
EP 0612378 B1 19951206 (DE)

Application
EP 92922852 A 19921030

Priority
• DE 4137103 A 19911112
• EP 9202486 W 19921030

Abstract (en)
[origin: DE4137103A1] An electrohydraulic machine for generating a force on a vertically movable piston rod (5) linked to the piston (4) of a cylinder (3) has a first centrifugal pump (17, 18) arranged in the part of the cylinder (3) opposite to the piston rod (5) and linked by a shaft (15) to an electric motor (2), as well as a housing for the cylinder and centrifugal pump that delimits a reservoir for the working fluid. A second centrifugal pump (18, 19) is arranged underneath the first centrifugal pump (17, 18) and both centrifugal pumps (17, 19; 18, 19) are in communication with the reservoir (14) through a duct (21, 22). The cylinder chamber (6) is closed above the piston (4) in relation to the reservoir (14) and is linked to the second centrifugal pump (18, 19) by means of a pressure line (24). When the electric motor (2) turns in a predetermined direction of rotation, the first centrifugal pump (17, 19) is driven by the shaft (15) and when it turns in the opposite direction of rotation the second centrifugal pump (18, 19) is driven by the shaft (15), whereas, in each case, the other centrifugal pump runs freely, so that the piston (4) may be moved both upwards and downwards.

IPC 1-7
F15B 15/18

IPC 8 full level
F04D 1/08 (2006.01); **F04D 13/14** (2006.01); **F15B 15/18** (2006.01); **F16D 65/28** (2006.01)

CPC (source: EP US)
F15B 15/18 (2013.01 - EP US)

Cited by
CN104481834A

Designated contracting state (EPC)
DE ES IT

DOCDB simple family (publication)
DE 4137103 A1 19930513; DE 4137103 C2 19940217; CA 2112357 A1 19930527; CA 2112357 C 20000801; CZ 115994 A3 19941215; CZ 289626 B6 20020313; DE 59204627 D1 19960118; EP 0612378 A1 19940831; EP 0612378 B1 19951206; ES 2080523 T3 19960201; HU 213343 B 19970528; HU 9401484 D0 19940829; HU T68102 A 19950529; JP H07503781 A 19950420; SK 280931 B6 20000912; SK 54494 A3 19941005; US 5519995 A 19960528; WO 9310361 A1 19930527

DOCDB simple family (application)
DE 4137103 A 19911112; CA 2112357 A 19921030; CZ 115994 A 19921030; DE 59204627 T 19921030; EP 9202486 W 19921030; EP 92922852 A 19921030; ES 92922852 T 19921030; HU 9401484 A 19921030; JP 50891892 A 19921030; SK 54494 A 19921030; US 24078194 A 19940512