

Title (en)
ELECTROMAGNETICALLY DRIVABLE PUMP

Title (de)
ELEKTROMAGNETISCH ANTREIBBARE PUMPE

Title (fr)
POMPE A ENTRAINEMENT ELECTROMAGNETIQUE

Publication
EP 0651858 B1 19971229 (DE)

Application
EP 93917625 A 19930722

Priority
• DE 4224084 A 19920722
• EP 9301955 W 19930722

Abstract (en)
[origin: WO9402741A1] An electromagnetically drivable pump suitable as a pressure supply aggregate for a hydraulic consumer has as driving device a double stroke magnetic system with two exciting windings of identical design arranged next to each other along a common central axis and which coaxially surround an axially movable armature which can be made to move back and forth with the pump piston in step with the alternating current supply of both exciting windings. This pump is designed as a double piston pump (10) with pump pistons (11, 12) and pump chambers (13, 14) of identical design axially arranged on both sides of the armature. The pump pistons (11, 12) have central throughchannels (97, 98) which are permanently in communication with the pump chambers (13, 14) and which are connected to inlet chambers provided in the armature (18) over inlet check valves centrally arranged in the armature (18). The armature input chamber is kept in communication with the hydraulic medium reservoir (104). The central channel (53) within which the armature (18) is movable back and forth is also in communication with the reservoir (104). The frequency and/or the current intensity of the exciting pulses used to alternatively power the exciting windings (22, 23) are adjustable.

IPC 1-7
F04B 17/04

IPC 8 full level
F04B 17/04 (2006.01)

CPC (source: EP)
F04B 17/046 (2013.01)

Designated contracting state (EPC)
AT BE CH DE FR GB IT LI

DOCDB simple family (publication)
WO 9402741 A1 19940203; AT E161613 T1 19980115; DE 4224084 A1 19940414; DE 59307899 D1 19980205; EP 0651858 A1 19950510; EP 0651858 B1 19971229

DOCDB simple family (application)
EP 9301955 W 19930722; AT 93917625 T 19930722; DE 4224084 A 19920722; DE 59307899 T 19930722; EP 93917625 A 19930722