

Title (en)

HYDROSTATIC AXIAL PISTON ENGINE, IN PARTICULAR FOR A MOTOR VEHICLE GEARBOX WITH POWER SPLIT.

Title (de)

HYDROSTATISCHE AXIALKOLBENMASCHINE, INSBESONDERE FÜR EIN KRAFTFAHRZEUGGETRIEBE MIT LEISTUNGSVERZWEIGUNG.

Title (fr)

MOTEUR HYDROSTATIQUE A PISTONS AXIAUX, NOTAMMENT POUR BOITES DE VITESSES A DERIVATION DE PUISSANCE DE VEHICULES A MOTEUR.

Publication

EP 0357698 B1 19950628 (DE)

Application

EP 89901264 A 19890116

Priority

- DE 3801144 A 19880116
- DE 8900017 W 19890116

Abstract (en)

[origin: WO8906750A1] A hydrostatic axial piston engine, in particular for a motor vehicle gearbox with power split, comprises a preferably interlocking holding device (40; 75) and a spring-loaded stabilizing device for the cylinder block (2) which is actuated by springs (24). The holding device (40; 75) has an accessory device for hydraulic and/or spring-assisted reinforcement of the holding forces. The stabilizing device for the cylinder block (2) has an additional hydraulic device for additional reinforcement of the stabilizing forces. The holding and stabilizing forces are automatically adapted to the various operating and load conditions with a view to improving the efficiency. An automatic adjustment device for the valve plate (31) ensures automatic adjustment of the valve plate (31) independent of the load or adapted to the operating conditions, also with a view to improving the efficiency and reducing engine noise.

IPC 1-7

F04B 1/20

IPC 8 full level

F04B 1/12 (2006.01); **F04B 1/20** (2006.01); **F04B 1/30** (2006.01)

CPC (source: EP)

F04B 1/126 (2013.01); **F04B 1/2007** (2013.01); **F04B 1/303** (2013.01)

Designated contracting state (EPC)

AT CH DE FR GB IT LI NL SE

DOCDB simple family (publication)

WO 8906750 A1 19890727; AT E124498 T1 19950715; DE 58909319 D1 19950803; EP 0357698 A1 19900314; EP 0357698 B1 19950628

DOCDB simple family (application)

DE 8900017 W 19890116; AT 89901264 T 19890116; DE 58909319 T 19890116; EP 89901264 A 19890116