

Title (en)
Axial piston machine

Title (de)
Axialkolbenmaschine

Title (fr)
Machine axiale à pistons

Publication
EP 1039127 B1 20050817 (DE)

Application
EP 00104963 A 20000308

Priority
DE 19912509 A 19990319

Abstract (en)
[origin: EP1039127A2] The axial piston engine has a swash plate (9) and a spring element (27), which generates a torque (M2) acting on the swash plate in a direction opposite to a first torque (M1) generated by a piston force (Kr). The second torque acts on the swash plate when it is in its max. and min. volume pivot positions. The spring is positioned relative to the pivot axis (24) on the side of the piston engine (1), to which the resulting piston force is offset. The spring is a pressure spring esp. a spiral coiled spring, and its force is adjusted by an adjusting device (39) with adjusting screw (41).

IPC 1-7
F03C 1/06; **F04B 1/32**

IPC 8 full level
F01B 3/00 (2006.01); **F03C 1/06** (2006.01); **F04B 1/32** (2006.01)

CPC (source: EP)
F01B 3/0032 (2013.01); **F04B 1/324** (2013.01)

Cited by
CN108361165A; CN103790795A; EP3171023A4

Designated contracting state (EPC)
DE FR GB IT SE

DOCDB simple family (publication)
EP 1039127 A2 20000927; **EP 1039127 A3 20010228**; **EP 1039127 B1 20050817**; DE 19912509 A1 20000928; DE 19912509 C2 20021107; DE 50010945 D1 20050922

DOCDB simple family (application)
EP 00104963 A 20000308; DE 19912509 A 19990319; DE 50010945 T 20000308