

Title (en)

Gear pump with integrated control valve

Title (de)

Zahnradpumpe mit integriertem Steuerventil

Title (fr)

Pompe à engrenages avec valve de contrôle intégrée

Publication

EP 1522730 B1 20071121 (DE)

Application

EP 03450286 A 20031223

Priority

AT 15942003 A 20031009

Abstract (en)

[origin: EP1522730A1] Rotary piston machine (1), especially a gear pump, comprises at least one first conveying wheel (3) connected to a drive shaft (5), and at least one second conveying wheel (4) rotatably mounted on an axle (6) and driven by the first conveying wheel. The conveying wheels are rotatably arranged in the conveying chamber (20) of a pump housing (2). The pump also comprises a control valve (7) for pressure-side shut-off of part of the conveying medium. The control valve is formed by the axle. The axle is mounted in the pump housing so that it can be displaced in an axial direction and forms a control piston.

IPC 8 full level

F04C 2/18 (2006.01); **F04C 14/26** (2006.01); **F04C 2/08** (2006.01)

CPC (source: EP)

F04C 2/18 (2013.01); **F04C 14/26** (2013.01); **F04C 2/084** (2013.01); **F04C 2270/20** (2013.01)

Cited by

CN111173737A; EP2034184A3; GB2452493B; GB2452493A; US8691140B2; US8657592B2

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