

Title (en)

Internal gear pump for high rotary speed range

Title (de)

Innenzahnradpumpe für grossen Drehzahlbereich

Title (fr)

Pompe à engrenage internes pour gamme de vitesses rotatives élevées

Publication

EP 0619430 B1 19970723 (DE)

Application

EP 93121068 A 19931229

Priority

- DE 4307034 A 19930305
- DE 4330586 A 19930909

Abstract (en)

[origin: US5413470A] In an internal gear pump, which can also be constructed as pump with suction control, to reduce the undesired cavitation effects in the pressure region and to permit the oil to flow off from the diminishing displacement cells between the teeth of the gears, and impedance-controlled overflow passage is provided, the openings of which towards the moving displacement cells are alternately opened and closed by the teeth of at least one of the gears.

IPC 1-7

F04C 2/10; F04C 15/00

IPC 8 full level

F04C 2/10 (2006.01); **F04C 15/00** (2006.01)

CPC (source: EP US)

F04C 15/0049 (2013.01 - EP US)

Cited by

US6030191A; EP0712997A3; WO9909322A1

Designated contracting state (EPC)

CH DE FR GB IT LI SE

DOCDB simple family (publication)

US 5413470 A 19950509; CA 2115795 A1 19940906; CA 2115795 C 20000411; CN 1040352 C 19981021; CN 1103136 A 19950531; EP 0619430 A1 19941012; EP 0619430 B1 19970723; JP 2739034 B2 19980408; JP H06299972 A 19941025

DOCDB simple family (application)

US 20561394 A 19940303; CA 2115795 A 19940216; CN 94102640 A 19940304; EP 93121068 A 19931229; JP 3504194 A 19940304