

Title (en)
Gear pump

Title (de)
Zahnradpumpe

Title (fr)
Pompe à engrenages

Publication
EP 0708245 B1 20010816 (DE)

Application
EP 95115849 A 19951009

Priority
DE 4436518 A 19941013

Abstract (en)
[origin: EP0708245A1] The gear pump consists of several meshing gears (4,5) counter-rotating in a housing (3), with one gear coupled to a drive. A hollow cylinder (9) in which a piston (10) axially slides, is coupled to a side wall (7) of the pump. The piston crown abuts the front side of the gears in basic position. Pref. the piston crown fully covers the gears. The centre points of the piston crown and addendum circle of the teeth may lie on one axis. The piston crown surface may be similar to that of the addendum envelope, while the gear front sides are fully covered.

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F04C 15/04

IPC 8 full level
F04C 2/10 (2006.01); **F04C 2/14** (2006.01); **F04C 14/26** (2006.01)

CPC (source: EP)
F04C 14/265 (2013.01)

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