

Title (en)
Volumetric pump

Title (de)
Volumetrische Pumpe

Title (fr)
Pompe volumétrique

Publication
EP 0953764 B1 20040929 (EN)

Application
EP 99107763 A 19990419

Priority
IT BO980263 A 19980427

Abstract (en)
[origin: EP0953764A1] Volumetric pump (1) in which a piston (6) is located to slide axially within a seat (3) formed in a valve body (2); the piston (6) defining within the seat (3) a variable volume pumping chamber (8), and the axial ends of the said seat (3) being connected to atmosphere by means of a supply duct (4) and an intake duct (5); the volumetric pump (1) comprises also an intake valve (13) and a discharge valve (14) to regulate respectively the incoming fluid supply and the outgoing fluid supply for the said pumping chamber (8), and an opposing retaining spring (10) to keep the piston (6) in the resting position whereby the pumping chamber volume (8) is minimised, and finally when an electrical current passes through it, a coil able to produce a magnetic field able to induce an axial movement of the piston (6) within the seat (3) to achieve an increase in volume of the said pumping chamber (8); the intake valve (13) being accommodated inside the pumping chamber (8). <IMAGE>

IPC 1-7
F04B 17/04

IPC 8 full level
F04B 17/04 (2006.01)

CPC (source: EP)
F04B 17/046 (2013.01); **F01M 2001/0223** (2013.01)

Cited by
EP1236894A1; EP1319832A3; EP1001167A3; EP1236895A1; EP1227242A3; EP1717439A1; WO2019114904A1

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