

Title (en)
Gear pump.

Title (de)
Zahnradpumpe.

Title (fr)
Pompe à engrenages.

Publication
EP 0455059 A1 19911106 (EN)

Application
EP 91106237 A 19910418

Priority
IT 346290 A 19900426

Abstract (en)
The pump (1) comprises a pump body (2), two meshing gears (5) and (6), two ports, an intake port and a delivery port (17) and (18), formed on opposite sides of the meshing zone of the gears (5 and 6), and two bushes (13) installed at the sides of the gears (5 and 6) and defining faces (14) in grazing relationship therewith. The face (14) of each bush (13) is formed with a first recess (22) of predetermined depth relative to a central axis (C) defined by joining the axes of the gears (5 and 6) and communicating with the induction port (17), and a second recess (23) communicating with the delivery port (18) and having a depth extending towards the axis (C) such as to communicate with an area (33) defined between the teeth (21) of the gears (5 and 6) in the meshing zone up to the point at which the area (33) has its minimum size, thus avoiding compression of the liquid housed therein. <IMAGE>

IPC 1-7
F04C 2/08

IPC 8 full level
F04C 2/08 (2006.01)

CPC (source: EP)
F04C 2/088 (2013.01)

Citation (search report)
• [X] FR 2352947 A1 19771223 - BOSCH GMBH ROBERT [DE]
• [X] US 3690793 A 19720912 - POLLMAN FREDERIC W, et al
• [X] GB 781697 A 19570821 - BORG WARNER
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Designated contracting state (EPC)
DE ES FR GB

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