

Title (en)
GEAR PUMP

Publication
EP 0342346 B1 19920415 (DE)

Application
EP 89106034 A 19890406

Priority
DE 3816537 A 19880514

Abstract (en)
[origin: EP0342346A2] The gear pump has two gears (14, 15) which mesh in external engagement with each other and against the side faces of which a sealing plate (26) is pressed with the aid of two approximately concentrically extending pressure fields (A, B). The two pressure fields are not connected to each other. The pressure of one pressure field (B) can be relieved with the aid of an orifice plate (39) arranged in the delivery line, in particular in such a way that the sealing plate (16) is lifted off from the gear side faces, as a result of which a horizontal delivery rate characteristic is produced, i.e. from a certain point limiting the delivery rate no longer increases with the rotational speed. As a result, the sealing plate has the function of a flow control valve. <IMAGE>

IPC 1-7
F04C 15/00; **F04C 15/04**

IPC 8 full level
F04C 14/26 (2006.01); **F04C 15/00** (2006.01)

CPC (source: EP US)
F04C 14/265 (2013.01 - EP US); **F04C 15/0026** (2013.01 - EP US)

Cited by
EP0620369A3; EP0379697A3

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
EP 0342346 A2 19891123; **EP 0342346 A3 19900418**; **EP 0342346 B1 19920415**; DE 3816537 A1 19891123; DE 58901138 D1 19920521; US 4971534 A 19901120

DOCDB simple family (application)
EP 89106034 A 19890406; DE 3816537 A 19880514; DE 58901138 T 19890406; US 34962289 A 19890510