

Title (en)
GEAR MACHINE (PUMP OR MOTOR)

Publication
EP 0291703 B1 19910515 (DE)

Application
EP 88106170 A 19880419

Priority
DE 8707256 U 19870520

Abstract (en)
[origin: EP0291703A1] The gear machine (pump or motor) has two externally intermeshing gear wheels (14, 15), the shafts (16, 17) of which are supported in bearing elements (18, 19). Lying against at least one side of the gear side faces is a sealing plate (26), which lies between the gear wheels and the bearing elements. Arranged on the end face of a bearing element facing the sealing plate (26) is a seal (27) which takes the form of two concentric centre rests, the rings (30, 31) being connected to one another by webs (32 to 34). In this way two pressure fields (38, 39) are produced which can be subjected to or relieved of pressure. In this way the sealing plate can be pressed more or less strongly against the gear side faces. In this way a good efficiency is achieved owing to the reduction in fluid leakage and relieving of the housing (10), since hydraulic fluid cannot penetrate the area of the bearing element. <IMAGE>

IPC 1-7
F04C 2/14

IPC 8 full level
F04C 2/14 (2006.01); **F04C 15/00** (2006.01)

CPC (source: EP)
F04C 15/0026 (2013.01)

Cited by
CN1073671C; EP0379697A3

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
DE 8707256 U1 19880922; DE 3862805 D1 19910620; EP 0291703 A1 19881123; EP 0291703 B1 19910515

DOCDB simple family (application)
DE 8707256 U 19870520; DE 3862805 T 19880419; EP 88106170 A 19880419