

Title (en)

GEAR MACHINE FOR USE AS A PUMP OR MOTOR

Publication

**EP 0421020 B1 19930908 (EN)**

Application

**EP 89118620 A 19891006**

Priority

EP 89118620 A 19891006

Abstract (en)

[origin: EP0421020A1] A gear machine (1) is described comprising a machine casing (2) closed by two covers (3 and 4) and within which two gear wheels (6) provided on respective shafts (7) supported by bushes (8) are in mutual engagement. The main characteristic of the present invention is that a compensation area for the axial thrusts to which a bush (8) is subjected is defined between an elastic diaphragm (5) installed between the bush (8) and a cover (3), so that because of the clearance between the gear wheels (6) and bushes (8) rapid starting is possible even under load, whereas as pressure increases a corresponding flexure of the diaphragm (5) towards the bushes (8) occurs, so as to gradually compensate said clearance while at the same time partially balancing said axial thrusts.

IPC 1-7

**F04C 2/18; F04C 15/00**

IPC 8 full level

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CPC (source: EP)

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EP0512514A3; CN112709692A; CN113279956A; US10634136B2; DE102010048073A1; US8776668B2

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