

Title (en)

Internal gear pump

Title (de)

Sichellose Innenzahnradmaschine

Title (fr)

Pompe à engrenages internes

Publication

EP 0911524 B1 20030326 (DE)

Application

EP 98118622 A 19981001

Priority

DE 19746769 A 19971023

Abstract (en)

[origin: DE19746769C1] The pump or motor (10) has a casing (11) with a drive (12) having an inner toothed hollow rotor (13) and a pinion defining tooth spacings containing pressurised fluid. A seal (19) scraper (19) has a pressure face (35) opposing the pinion, made from two faces (36,37). Both faces can have different angle of inclination with respect to the axis of the seal. The angle of inclination (W3) defines a tangent (T) which lies on the contact plane of the sealing edge of the seal scraper on the gear tooth, to which the moment of both changing phases of the drive is greater than the angle of inclination (W1.W2) of both flanks.

IPC 1-7

F04C 2/10; F04C 15/00

IPC 8 full level

F01C 21/08 (2006.01); **F04C 2/08** (2006.01); **F04C 2/10** (2006.01); **F04C 15/00** (2006.01)

CPC (source: EP)

F01C 21/0809 (2013.01); **F04C 2/084** (2013.01); **F04C 15/0019** (2013.01)

Cited by

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Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

DE 19746769 C1 19990211; DE 59807629 D1 20030430; EP 0911524 A1 19990428; EP 0911524 B1 20030326

DOCDB simple family (application)

DE 19746769 A 19971023; DE 59807629 T 19981001; EP 98118622 A 19981001