

Title (en)

Internal gear pump without crescent filling piece with sealing elements inserted in the tooth heads

Title (de)

Sichellose Innenzahnradpumpe mit in den Zahnköpfen eingesetzten Dichtelementen

Title (fr)

Pompe à engrenages internes avec de segments d'étanchéité insérés dans les têtes des dents

Publication

EP 0866225 B1 20010704 (DE)

Application

EP 98101501 A 19980129

Priority

DE 19712169 A 19970322

Abstract (en)

[origin: DE19712169C1] The pump comprises teeth which are formed on the inside of an annulus and on a pinion meshing with it. The two rotate in a common housing with suction and pressure unions, and radial ports are provided in the annulus for the passage of the medium handled. The crowns of the annulus teeth contain dovetail-section grooves (34) accommodating seals (30) sliding in the radial direction and working against the crowns of the pinion teeth. One or more lengthwise grooves (52-54) are machined in the mating faces of the dovetail-section grooves and/or seals.

IPC 1-7

F04C 2/10

IPC 8 full level

F04C 2/10 (2006.01)

CPC (source: EP US)

F04C 2/102 (2013.01 - EP US)

Cited by

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Designated contracting state (EPC)

BE DE DK ES FR GB IT NL SE

DOCDB simple family (publication)

DE 19712169 C1 19980312; DE 59800951 D1 20010809; DK 0866225 T3 20011015; EP 0866225 A1 19980923; EP 0866225 B1 20010704; ES 2159160 T3 20010916; JP H10266974 A 19981006; TW 411984 U 20001111; US 6093006 A 20000725

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