

Title (en)

Internal gear pump with sealings incorporated in the teeth.

Title (de)

Sichellose Innenzahnradpumpe mit in die Zahnköpfe eingesetzten Dichtelementen.

Title (fr)

Pompe à engrenages internes avec joint d'étanchéité incorporé dans les dents.

Publication

EP 0545424 B1 19950308 (DE)

Application

EP 92120694 A 19921204

Priority

DE 4140293 A 19911206

Abstract (en)

[origin: EP0545424A1] The invention relates to a crescent-less internal-gear pump having a ring gear (6) and a pinion (5) meshing with the ring gear (6) which are rotatably supported in a jointly supported casing section (1) whose axial extent corresponds to the width of the gearing (12) of the ring gear (6) and the pinion (5) and which has a suction connection (7) and a discharge connection (10), the ring gear (6) having radial openings (17) for the medium to be pumped, and there being set, in the tooth tips (14) of the ring gear (6) and in the tooth tips (13) of the pinion (5), one sealing element (30) in each case which is radially movable in an appropriately shaped profiled groove (34) and which can slide on the opposite tooth tip of the pinion (5) and of the ring gear (6). The invention is characterised in that the sealing element is dimensioned in such a way in the region of the sliding surface that it occupies the entire tip face of the tooth tip of the ring gear and of the pinion. <IMAGE>

IPC 1-7

F04C 2/08; **F04C 15/00**

IPC 8 full level

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CPC (source: EP US)

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Cited by

DE19746769C1; EP0661454A1; EP0845596A1; EP0866225A1; US6093006A; EP0911524A1

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