

Title (en)
INTERNAL GEAR PUMP AND VEHICLE WITH AN INTERNAL GEAR PUMP

Title (de)
INNENZAHNRADPUMPE UND FAHRZEUG MIT EINER INNENZAHNRADPUMPE

Title (fr)
POMPE A ENGRENAGES INTERIEURS ET VEHICULE DOTE D'UNE TELLE POMPE

Publication
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Application
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Abstract (en)
[origin: CN106050651A] The invention relates to an internal gear pump, in particular trochoid pump, for a vehicle, with a pump housing (3) having a rotor chamber (4) in which a, an internal gear with internal teeth (7a-7g)-tasting tooth ring (6) is received, with a eccentrically to the gear ring (6) is mounted and an external gear with external teeth (12a-12f) having gear (11) is engaged in such a manner can be brought, that in a meshing portion (13a) at least one of the external teeth (12a) in one between two internal teeth (7a; 7g) lying inner tooth space rests, wherein the pump chambers (16) forming volumes between the internal teeth (7a-7g) and said external teeth (12a-12f) in a, a suction chamber (17) associated with the rotor chamber portion, starting from the tooth engagement region (13a) to adjacent to a tooth adjacent region (14a), in which at least one outer tooth (12d) on the head side to an inner teeth (7d), or abuts, to be greater and in one, a pressure chamber (18) associated with the rotor chamber portion, starting from the tooth adjacent region (14a) to the toothed engaging portion (13a) become smaller again. According to the invention, a relief channel (19) is at least provided which forms a flow connection between the tooth engaging portion (13a) and the pressure chamber (18).

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