Title (en)

VANE CELL PUMP

Title (de)

FLÜGELZELLENPUMPE

Title (fr)

POMPE ROTATIVE A AILETTES

Publication

EP 1828609 B1 20130327 (DE)

Application

EP 05813372 A 20051116

Priority

- EP 2005056012 W 20051116
- DE 102004060554 A 20041216

Abstract (en)

[origin: WO2006063913A1] The vane cell pump comprises a pump housing (10) with a rotor (20) arranged therein, wherein said rotor comprises several grooves (24) distributed along the periphery thereof and extending in an at least substantially radial manner with respect to the axis of rotation (13) of the rotor(20) and in which a respective vane-shaped transport element (26) is displaceably guided. Front surface walls (14,16) of the pump housing (10) are adjacent to the rotor in the direction of the axis of rotation (13) thereof. An annular groove (38,138) surrounding the axis of rotation (13) of the rotor (20) is embodied in at least one of the front surface walls (14,16) of the housing; said annular groove being located opposite the radially innermost inner areas of the grooves (24) of the rotor (20) and being connected to the pressure area (32,34) by means of a connecting groove (40) in the front surface wall (14,16) of the housing. The connecting groove (40) extends from the pressure area (32,34) in the direction of rotation (21) of the rotor (20) in a curved radial innermost manner towards annular groove (38; 138).

IPC 8 full level

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CPC (source: EP)

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