

Title (en)
DISPLACEMENT MACHINE

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Abstract (en)
[origin: US4884957A] PCT No. PCT/EP86/00411 Sec. 371 Date Mar. 7, 1988 Sec. 102(e) Date Mar. 7, 1988 PCT Filed Jul. 11, 1986 PCT Pub. No. WO88/00642 PCT Pub. Date Jan. 28, 1988. The displacement machine includes a casing (1) closed by an end plate (2) and accommodating a rotor with displacement surfaces with which a seal is engaged in form-locking manner to co-rotate therewith. The displacement surfaces sealingly engage a hollow (5) which defines the working space and is concentric to the rotational axis (3) of the rotor whereby the hollow (5) is provided in the rotor-facing end face (6) of the casing (1). The end face (6) defines with the rotational axis (3) of the rotor an angle deviating from 90 DEG . The rotor is a displacement body (4) filling out and covering the hollow (5) with at least one recess according to a section along an axis parallel plane or curved area intersecting the hollow (5) wherein the surface parts of the displacement body (4) projecting into the hollow (5) define the displacement surfaces (4a). Arranged in each recess is a sealing element (7) which bears against the displacement surfaces (4a) along a sealing line. All the sealing elements (7) define the co-rotating seal.

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