

Title (en)

Rotary vane pump.

Title (de)

Flügelzellenpumpe.

Title (fr)

Pompe rotative à palettes.

Publication

EP 0205036 A2 19861217 (DE)

Application

EP 86107221 A 19860528

Priority

- DE 3521186 A 19850613
- DE 3531963 A 19850907

Abstract (en)

1. Vane-cell pump, having pump vanes (5, 6), which can move back and forth radially in the pump housing (1) in a rotor slit (4) and which can move outwards by generation of a radial force, a sliding surface of each vane having a step-shaped projection and the counter-sliding surface in the associated rotor slit having a step-shaped indentation receiving the projection, characterized in that the pump has only one rotor slit (4), in which two vanes (5, 6) slide and are supported one on the other and in that the projection (60) and the indentation (61) are dimensioned such that the radially inwardly facing limiting surface of the projection (60) acts with the radially outwardly facing limiting surface of the indentation (61) as stop (60) limiting the vane movement at the lower dead centre when entering the rotor slit (4).

Abstract (de)

Bei einer Flügelzellenpumpe gleiten in einem Rotorschlitze zwei aufeinanderliegende Flügel. Die Flügel (5, 6) ragen mit wechselnder Länge über den Rotor hinaus. Die Flügel besitzen auf ihrer Rückseite einen Anschlag (60), der in eine Tasche des Rotors hineinfährt. Hierdurch wird die Kraft, die zum Abbremsen der Radialbewegung des Flügels erforderlich ist, wesentlich gemindert. Gleichzeitig wirken der Anschlag und die Tasche als Dämpfungselemente.

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