

Title (en)

Vane pump, especially for power steering.

Title (de)

Flügelzellenpumpe, insbesondere zur Lenkhilfe.

Title (fr)

Pompe à palettes, notamment pour direction assistée.

Publication

EP 0014836 A1 19800903 (DE)

Application

EP 80100167 A 19800114

Priority

DE 2905273 A 19790212

Abstract (en)

1. Sliding vane pump, especially steering pump, comprising the following arrangement : a) a cup shaped body (1) having suction and pressure ducts and a cup shaped cover (2) made up of deep-drawn sheet steel having an inwardly curved bottom (30) and a ring like border (31) enclosing a cam ring (5) and two cheek plates (3, 4) which sandwich a rotor (7) having radially slidably vanes (8) ; b) between the cam ring (5) and the rotor (7) sickle shaped spaces are arranged which are subdivided by the vanes (8) to form rotating working chambers each having an extending area (seen in rotational direction) wherein the suction duct enters, and a narrowing area wherefrom the pressure duct branches off ; c) the suction duct forming inlet openings according to the number of the sickle shaped spaces passes through one of the cheek plates and the pressure duct forming outlet openings of equal number passes through the outer cheek plate and enters into a pressure chamber (23) arranged behind the cover ; characterized by the following features : d) the space between curved bottom (30) and ring like border (31) of the cover (2) is covered by a sheet metal (34) which is layered by a noise damping mass leaving a distance space (35) to the curved bottom (30).

Abstract (de)

Flügelzellenpumpe zur Lenkhilfe ist trotz der Verwendung eines tiefgezogenen Gehäusedeckels (30) zum Verschließen des Pumpengehäuses geräuscharm, wenn der Raum zwischen gewölbtem Boden und ringförmigem Rand des Gehäusedeckels mit einem Blech (34) abgedeckt ist, welches mit Antidröhnmasse (33) beschichtet ist und einen gewissen Abstand zum Deckelboden einhält.

IPC 1-7

F04C 15/00

IPC 8 full level

B62D 5/06 (2006.01); **F04C 2/344** (2006.01); **F04C 15/00** (2006.01)

CPC (source: EP)

F04C 15/00 (2013.01)

Citation (search report)

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Designated contracting state (EPC)

BE CH DE FR GB LU NL SE

DOCDB simple family (publication)

EP 0014836 A1 19800903; **EP 0014836 B1 19820106**; DE 2905273 A1 19800828; DE 3060132 D1 19820225

DOCDB simple family (application)

EP 80100167 A 19800114; DE 2905273 A 19790212; DE 3060132 T 19800114