

Title (en)

Vane pump, especially for power steering.

Title (de)

Flügelzellenpumpe, insbesondere zur Lenkhilfe.

Title (fr)

Pompe à palettes, en particulier pour système de puissance assisté.

Publication

EP 0151657 A1 19850821 (DE)

Application

EP 84101136 A 19840204

Priority

EP 84101136 A 19840204

Abstract (en)

[origin: US4637782A] A hydraulic rotary vane pump comprises a flow control valve with a venturi throat disposed upstream thereof whereby the entire delivery flow from the pump passes through the venturi throat. The flow control valve is operable to control the amount of fluid flowing to the delivery outlet of the unit, under the influence of the pressure drop at a restrictor throttle in the form of a bore extending from the throat transversely with respect to the axis thereof. The angle between the axis of the venturi throat and the axis of the bore is between 90 DEG and 150 DEG depending on the degree to which the characteristic of the outlet flow produced is intended to drop off.

Abstract (de)

Flügelzellenpumpe mit Stromregelventil (40), dem eine Venturidüse (36) vorgeschaltet ist, so daß der gesamte Förderstrom der Pumpe durch die Venturidüse (36) gelangt. Die Meßblende (38) des Stromregelventils (40) ist als Drosselbohrung quer zur Achse der Venturidüse (36) ausgebildet, wobei ein Winkel α zwischen 90° und 150° gewählt wird, je nachdem, wie stark die Kennlinie des abgegebenen Nutzstromes abfallen soll.

IPC 1-7

F04C 15/04

IPC 8 full level

B62D 5/07 (2006.01); **F04B 49/02** (2006.01); **F04B 49/10** (2006.01); **F04C 2/344** (2006.01); **F04C 14/26** (2006.01)

CPC (source: EP US)

F04C 14/26 (2013.01 - EP US)

Citation (search report)

- [X] DE 1528973 A1 19690925 - BOSCH GMBH ROBERT
- [X] DE 2001614 A1 19710722 - ZAHNRADFABRIK FRIEDRICHSHAFEN
- [A] US 3415194 A 19681210 - CONNELLY LAVERN R
- [A] US 2340196 A 19440125 - MAGRUM GERVASE M, et al

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KR101228190B1; GB2332482A; US6164922A; GB2332482B; WO9859172A1

Designated contracting state (EPC)

DE FR GB IT SE

DOCDB simple family (publication)

EP 0151657 A1 19850821; CA 1245100 A 19881122; JP S60192889 A 19851001; US 4637782 A 19870120

DOCDB simple family (application)

EP 84101136 A 19840204; CA 472981 A 19850128; JP 1879185 A 19850204; US 83025486 A 19860218