

Title (en)

Flow control plate especially for a vane pump

Title (de)

Steuerscheibe insbesondere für eine Flügelzellenpumpe

Title (fr)

Plaque de réglage, notamment pour pompe à palettes

Publication

EP 1178211 A3 20030108 (DE)

Application

EP 01118547 A 20010801

Priority

DE 10037468 A 20000801

Abstract (en)

[origin: EP1178211A2] The cam plate comprises a pressure port (3), a suction port (4) and a bleed facility in the form of a slot-type cut-out (6) in a side face of the cam plate. The bleed slot has a continuously changing cross section over its length. The pressure port and suction port are arc-shaped, while the bleed slot may be curved or linear in form. The bleed slot ends in a through-hole formed in the cam plate. The depth of the bleed slot corresponds to the depth of the pressure port in the cam plate. The bleed slot extends over approximately a quarter of the circumference of the cam plate. An Independent claim is included for a cell vane pump equipped with the proposed cam plate.

IPC 1-7

F04C 2/344; **F04C 15/02**

IPC 8 full level

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

CPC (source: EP)

F01C 21/108 (2013.01); **F04C 2/3441** (2013.01); **F04C 15/06** (2013.01); **F04C 2220/20** (2013.01)

Citation (search report)

- [X] US 5222886 A 19930629 - FISCHER GUENTER [DE], et al
- [XY] DE 2207671 A1 19720824
- [XY] DE 19707119 C1 19980813 - ZAHNRADFABRIK FRIEDRICHSHAFEN [DE]
- [X] US 4256443 A 19810317 - KUNZE LOTHAR, et al
- [X] DE 3207507 A1 19830908 - SIEMENS AG [DE]

Cited by

WO2008148472A1; EP2999094B1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

EP 1178211 A2 20020206; **EP 1178211 A3 20030108**; **EP 1178211 B1 20041103**; DE 10037468 A1 20020214; DE 50104360 D1 20041209

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