

Title (en)
Side channel pump

Title (de)
Seitenkanalpumpe

Title (fr)
Pompe à canal latéral

Publication
EP 1331400 A3 20040107 (DE)

Application
EP 03001089 A 20030120

Priority
DE 10202366 A 20020123

Abstract (en)
[origin: EP1331400A2] Side channel pump comprises two parallel pump channels (24a, 24b), and a pump wheel (12) having two parallel half-channels (28a, 28b) separated from each other by a channel separating wall (34). The half-channels each have pump chambers (32a, 32b) arranged behind each other in the peripheral direction. The pump chambers are connected together by pressure equalization openings (36) and are formed by paddle walls (30) lying at an angle of 10degrees to the one side. Preferred Features: The opening width of the pressure equalization openings is less than 2/5 of the channel separating wall width. The ratio of the surface of the channel separating wall to the surface of the pressure equalization openings is less than 0.3.

IPC 1-7
F04D 29/18

IPC 8 full level
F04D 29/18 (2006.01)

CPC (source: EP)
F04D 29/188 (2013.01)

Citation (search report)

- [Y] DE 3925396 A1 19910207 - SWF AUTO ELECTRIC GMBH [DE]
- [Y] US 5807068 A 19980915 - DOBLER KLAUS [DE], et al
- [A] EP 1024296 A2 20000802 - MANNESMANN VDO AG [DE]
- [A] US 2002001520 A1 20020103 - ROLLWAGE MATHIAS [DE], et al
- [A] PATENT ABSTRACTS OF JAPAN vol. 1997, no. 04 30 April 1997 (1997-04-30)

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