

Title (en)
Feed pump

Title (de)
Förderpumpe

Title (fr)
Pompe d'alimentation

Publication
EP 0884475 A3 20001025 (DE)

Application
EP 98110233 A 19980604

Priority
DE 19724240 A 19970609

Abstract (en)
[origin: EP0884475A2] The formable chambers (3,4,5) in the delivery direction (R) are arranged one behind the other and are connectable with one another. The first chamber (3) in relation to the delivery direction (R) receives the medium via the medium inlet (1) and the last chamber (5) in relation to the delivery direction is connected to the medium outlet (2). The chambers have variable volumes, which are adjusted by adjusters (15,16,17) formed by electro-magnetic lift components and/or by excess pressure and/or vacuum producing devices. The connection between two adjacent chambers is by means of overflow channels. The chambers are at least partly by an elastically deformable material (13), which is deformed by the volume adjusters.

IPC 1-7
F04B 43/04; **F04B 43/02**

IPC 8 full level
F04B 43/02 (2006.01); **F04B 43/04** (2006.01)

CPC (source: EP US)
F04B 43/046 (2013.01 - EP US)

Citation (search report)
• [XY] US 5096388 A 19920317 - WEINBERG MARC S [US]
• [YA] US 5499909 A 19960319 - YAMADA TAKAHIRO [JP], et al
• [A] US 4265601 A 19810505 - MANDROIAN HAROLD
• [A] US 5593290 A 19970114 - GREISCH DANNY L [US], et al
• [A] US 5346372 A 19940913 - NARUSE YOSHIHIRO [JP], et al
• [A] US 4888598 A 19891219 - HEINZL JOACHIM [DE], et al
• [AD] EP 0134614 A1 19850320 - VITAFIN NV [NL]

Cited by
JP2012217684A; AU755023B2; CN1097676C; US2022268268A1; US11598331B2; WO0039463A1

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