

Title (en)  
Gear pump with three shafts

Title (de)  
Zahnradpumpe mit drei Wellen

Title (fr)  
Pompe volumétrique à double engrenage

Publication  
**EP 1267077 A1 20021218 (FR)**

Application  
**EP 02291491 A 20020614**

Priority  
FR 0107834 A 20010615

Abstract (en)  
The double-mesh pump has three gears forming two inlet chambers (7) and two pressure chambers (6), a central feed pipe (9) connected to two inlet ducts (11, 12) leading to the inlet chambers, and a central pressure pipe connecting two pressure ducts (16) issuing from the pressure chambers. The pump incorporates pressure fluid guides (19) that are able to connect the inlet and pressure chambers and send at least part of the fluid from the second pressure chamber to the first inlet chamber. The first inlet chamber is connected to the second pressure chamber by one valve, and the second inlet chamber is connected to the first pressure chamber by another.

IPC 1-7  
**F04C 2/18**; **F04C 15/04**

IPC 8 full level  
**F04C 2/18** (2006.01); **F04C 14/02** (2006.01); **F04C 15/06** (2006.01)

CPC (source: EP)  
**F04C 2/18** (2013.01); **F04C 14/02** (2013.01)

Citation (search report)

- [XA] US 4502845 A 19850305 - CHANA HOWARD E [US]
- [A] BE 549734 A
- [XA] US 2665637 A 19540112 - ALFRED LAUCK JOHN
- [XA] DE 674380 C 19390413 - FRITZ EGERSDOERFER, et al

Cited by  
CN107366619A; CN102926997A; CN100419267C; GB2397345A; EP2634430A1

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BE DE ES GB IT

DOCDB simple family (publication)  
**EP 1267077 A1 20021218**; **EP 1267077 B1 20080227**; DE 60225207 D1 20080410; DE 60225207 T2 20090326; FR 2826069 A1 20021220; FR 2826069 B1 20040312

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