

Title (en)
High pressure diaphragm pump.

Title (de)
Membranpumpe für hohen Druck.

Title (fr)
Pompe à membrane pour pressions élevées.

Publication
EP 0012584 A1 19800625 (EN)

Application
EP 79302829 A 19791207

Priority
GB 7847630 A 19781207

Abstract (en)
A high pressure diaphragm pump has a diaphragm 2 which carries a valve poppet 7 on its upper surface. The valve poppet 7 fits into a flared portion 6 of a passage 4 for hydraulic fluid. When the diaphragm 2 restores to the position shown in Figure 1, the valve poppet 7 closes the passage 4 and prevents the diaphragm being punched back into the passage by excessive fluid pressure on the opposite side of the diaphragm. The diaphragm is made with flat edges 10, 11, 12 so that it can easily be mounted in a housing by means of three easily formed components 13, 14, 15. A small axial compression between components 14 and 15 is all that is necessary to keep the diaphragm in place during operation.

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F04B 43/06

IPC 8 full level
F04B 43/02 (2006.01); **F04B 43/00** (2006.01); **F04B 43/067** (2006.01)

CPC (source: EP US)
F04B 43/0054 (2013.01 - EP); **F04B 43/0063** (2013.01 - EP US); **F04B 43/067** (2013.01 - EP US)

Citation (search report)
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Designated contracting state (EPC)
AT BE CH DE FR IT LU NL SE

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GB 2036166 A 19800625; **GB 2036166 B 19821208**; AU 5351879 A 19800612; DK 521779 A 19800608; EP 0012584 A1 19800625; ES 486702 A0 19801216; ES 8101726 A1 19801216; IE 49005 B1 19850710; IE 792350 L 19800607; JP S5584882 A 19800626

DOCDB simple family (application)
GB 7847630 A 19781207; AU 5351879 A 19791206; DK 521779 A 19791207; EP 79302829 A 19791207; ES 486702 A 19791207; IE 235079 A 19791206; JP 15867979 A 19791206