

Title (en)  
DIAPHRAGM PUMP

Publication  
**EP 0380922 A3 19901205 (DE)**

Application  
**EP 90100279 A 19900108**

Priority  
DE 3903049 A 19890202

Abstract (en)  
[origin: JPH02238186A] PURPOSE: To facilitate the manufacture of a diaphragm pump in which diaphragm working chambers including a pump working chamber are connected respectively to stroke working chambers whose volumes are changed through reciprocation of a plurality of pistons, by providing the pistons and the pump working chamber in the center part and in parts on both sides of the center part. CONSTITUTION: This diaphragm pump is composed of a plurality of pistons 1 which are reciprocated, and which are fitted in cylinders 2 formed in a cylinder block 3, and the volumes of stroke working chambers 4 are changed through the reciprocation of the pistons. These stroke working chambers 4 are connected to diaphragm chambers 6 through conduits 5. Each of the working chambers 6 is partitioned by a diaphragm into a cylinder side chamber 6' and a pump working chamber 6'' which is connected to a suction conduit 10 through an inlet valve device 8, and to a discharge conduit through an outlet valve 9. The diaphragm working chambers 6 are arranged on an extension line of the center cylinder 2, and laterally of the cylinder on both sides thereof.

IPC 1-7  
**F04B 43/06**

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

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

Citation (search report)

- [Y] DE 3700931 A1 19871126 - EICKMANN KARL [DE]
- [Y] DE 1013522 B 19570808 - ICI LTD
- [A] JP S61241474 A 19861027 - TAGA KIICHI
- [A] DE 3706697 A1 19880915 - BREINLICH RICHARD DR [DE]

Cited by  
EP1816350A1; WO2007090503A1

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DE FR GB IT NL

DOCDB simple family (publication)  
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