

Title (en)
DIAPHRAGM PUMP

Title (de)
MEMBRANPUMPE

Title (fr)
POMPE A MEMBRANE

Publication
EP 0922164 A1 19990616 (DE)

Application
EP 97933693 A 19970722

Priority
• DE 19634922 A 19960829
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Abstract (en)
[origin: DE19634922A1] A diaphragm pump, in particular a microdiaphragm pump, has a crank drive (1) with a connecting rod (2) and an elastic diaphragm (3) joined to the connecting rod (2). At its rear side opposite to the compression chamber, the diaphragm (3) is provided with at least one undercut fastening hole (8) into which the matching fastening end of the connecting rod is inserted. In order to secure the diaphragm (3) as accurately as possible on the connecting rod (2), so that neither radial nor axial forces can move it out of its position relative to the connecting rod (2), and so that the diaphragm (3) is exposed to as little as possible additional flexing work, the connecting rod (2) has at its fastening end a supporting surface (4) for supporting from below the central diaphragm area which is provided with a supporting surface (5), and one or several fastening projections (6) which extend in the axial direction of the connecting rod (2) over the supporting surface (4) of the connecting rod (2) form-fittingly engage the central diaphragm area provided with at least one fastening hole (8).

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IPC 8 full level
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DE FR GB

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DE 19634922 A1 19980305; **DE 19634922 C2 20000323**; DE 59709640 D1 20030430; EP 0922164 A1 19990616; EP 0922164 B1 20030326; JP 2000502778 A 20000307; KR 100316470 B1 20011212; KR 20000035807 A 20000626; US 6065389 A 20000523; WO 9809078 A1 19980305

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