

Title (en)
Diaphragm pump

Title (de)
Membranpumpe

Title (fr)
Pompe à membrane

Publication
EP 0743452 B1 20011107 (EN)

Application
EP 96303301 A 19960513

Priority
GB 9509773 A 19950515

Abstract (en)
[origin: EP0743452A1] A motor driven diaphragm pump comprises an electric motor (2) having mounted thereon a pump assembly (3). The pump assembly (3) comprises a body (4) formed by a first body part (4a) which is mounted on the motor (2) to support the pump assembly on the motor, and a second body part (4b). A crank shaft (5) having an eccentric portion (6) is mounted in the body by a bearing (7) and is coupled to the output shaft (8) of the motor. A multiplicity of pumping chambers (14) are defined between respective diaphragms (11) and covers (12). The diaphragms (11) are coupled to the crank shaft (5) by a coupling member (15) which is a unitary plastics moulding and comprises a hub which is received on the eccentric, a head which is connected to each diaphragm and a flexible connecting web which connects each head to the hub. The pump is particularly suitable for use as an inflation pump for an inflatable bladder forming part of a vehicle seat. <IMAGE>

IPC 1-7
F04B 45/04

IPC 8 full level
F04B 45/04 (2006.01)

CPC (source: EP US)
F04B 45/043 (2013.01 - EP US)

Cited by
KR101303489B1; EP2554846A1; CN102913424A; EP1877710A4; CN114439732A; DE102007020538A1; JP2020133487A; CN112682390A; US8702180B2; US8984898B2; US8171742B2; US11939971B2; WO2007090764A1; WO2009103217A1; WO2018037443A1; EP2365220A1; US9341176B2; JP2008542671A

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