

Title (en)
VOLUMETRIC PUMP

Publication
EP 0032473 B1 19840711 (FR)

Application
EP 81400031 A 19810112

Priority
FR 8000569 A 19800111

Abstract (en)
[origin: EP0032473A1] 1. Pump comprising : an impervious casing (1) having an inlet pipe (2) and an outlet pipe (3) ; two walls (A, B) which are formed respectively from a rigid component (14, 11, 11B) on the periphery of which there is fixed the internal periphery of an elastic membrane (7, 7B), which, between them and the casing (1), delimit an intermediate compartment (6) contained between two compartments, namely an inlet compartment (4) and a delivery compartment (5), which communicate respectively with the pipes (2, 3) and which, by means of clack-valves (16A, 16B) with seats (11, 11B), only allow a fluid to pass from the inlet compartment (4) to the intermediate compartment (6) and from the latter (6) to the outlet compartment (5) ; and means (15, 15B, 19) for moving the walls (A, B) alternately away from and close to each other ; characterised in that the membranes (7, 7B) are fixed by means of their external periphery to the casing (1) which has, between the areas where the membranes (7, 7B) are fixed, recesses (17) which extend only between the membranes (7, 7B) so that the volume of the intermediate compartment (6) is reduced merely between the membranes (7, 7B).

IPC 1-7
F04B 43/02

IPC 8 full level
F04B 43/02 (2006.01)

CPC (source: EP US)
F04B 43/025 (2013.01 - EP US); **F04B 43/028** (2013.01 - EP US)

Citation (examination)
Pumping Manual - 6ème Edition 1979 - Trade Technical Press Morden - Surrey - page 511

Cited by
EP0221034A1; WO0120166A1; WO2013171453A1

Designated contracting state (EPC)
AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)
EP 0032473 A1 19810722; EP 0032473 B1 19840711; AT E8427 T1 19840715; DE 3164624 D1 19840816; FR 2473646 A1 19810717; FR 2473646 B1 19820917

DOCDB simple family (application)
EP 81400031 A 19810112; AT 81400031 T 19810112; DE 3164624 T 19810112; FR 8000569 A 19800111