

Title (en)
FORCE AND SUCTION PUMP FOR FLUID CONTAINERS

Title (de)
SAUG-DRUCKPUMPE FÜR FLUIDBEHÄLTER

Title (fr)
POMPE ASPIRANTE ET FOULANTE POUR RESERVOIRS DE FLUIDE

Publication
EP 0739247 A1 19961030 (DE)

Application
EP 95906942 A 19950113

Priority

- DE 4400944 A 19940114
- EP 9500132 W 19950113

Abstract (en)
[origin: US5692649A] PCT No. PCT/EP95/00132 Sec. 371 Date Sep. 19, 1996 Sec. 102(e) Date Sep. 19, 1996 PCT Filed Jan. 13, 1995 PCT Pub. No. WO95/19230 PCT Pub. Date Jul. 20, 1995A suction and force pump for a fluid in a sealed fluid container makes possible the drawing off by suction of residual air after the filling of the container with fluid, with the piston (3) in a particular position in the pressure cylinder (8) of the pump, by means of the pump channel (7) of the pump itself. For this purpose there is provided a channel for drawing off the residual air by suction, from the upper side of the fluid container through openings (13), a gap between piston (3) and the internal wall of the pressure cylinder (8), which gap is sealed with respect to the pressure cylinder (8) only by means of a peripheral sealing lip (9), through the pressure chamber (6) to the pump channel (7). The valve (5) to the fluid container is thereby closeable independently of pressure during the pumping away, by means of a plunger (11).

IPC 1-7
B05B 11/00

IPC 8 full level
B05B 11/00 (2006.01)

CPC (source: EP US)
B05B 11/0041 (2018.07 - EP US); **B05B 11/0097** (2013.01 - EP US); **B05B 11/1061** (2023.01 - EP US); **B05B 11/1066** (2023.01 - EP US)

Citation (search report)
See references of WO 9519230A1

Cited by
DE10049898A1; DE10049898C2; WO02076626A1; US6666355B2; WO0230577A1

Designated contracting state (EPC)
AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
US 5692649 A 19971202; AT E165534 T1 19980515; DE 4400944 A1 19950720; DE 59502051 D1 19980604; EP 0739247 A1 19961030; EP 0739247 B1 19980429; WO 9519230 A1 19950720

DOCDB simple family (application)
US 66955696 A 19960919; AT 95906942 T 19950113; DE 4400944 A 19940114; DE 59502051 T 19950113; EP 9500132 W 19950113; EP 95906942 A 19950113