

Title (en)
AUTOMATIC FLUID CONTAINER REFILL DEVICE

Title (de)
VORRICHTUNG ZUM AUTOMATISCHEN NACHFÜLLEN VON FLÜSSIGKEITSBEHÄLTERN

Title (fr)
DISPOSITIF DE REAPPROVISIONNEMENT AUTOMATIQUE POUR RECIPIENT A FLUIDE

Publication
EP 1034109 A4 20020320 (EN)

Application
EP 97948120 A 19971027

Priority
US 9719237 W 19971027

Abstract (en)
[origin: WO9921761A1] An automatic fluid container (10) refill device. Pressure container (12) is charged with a pressurizing gas and fluid. A hydraulic cylinder (26) with an interior volume and having piston (30) located therein with an attached drive shaft (32) that extends out of the hydraulic cylinder (26) is provided. Drive shaft (32) has gear rack (40) located thereon. Hydraulic cylinder (26) has hydraulic fluid inlets (28, 36) provided at first and second ends thereof. Fluid conduit (24) connects between pressure container (12) and first hydraulic fluid inlet (28). A valve (44) has a fluid inlet (46) and outlet (48). Geared sprocket (42) is mounted on valve (44) and is operable for opening and closing valve (44). Gear rack (40) on drive shaft (32) is engaged with and operates geared sprocket (42). Fluid supply pipe (50) is connected to fluid inlet (46) and carries fluid from a source of fluid through valve (44). Fluid junction (38) is in fluid communication with fluid outlet (48) of valve (44). Second fluid tube (34) connects fluid junction (38) and a second hydraulic fluid inlet (36). Fluid fill tube (56) connects fluid junction (38) to a fluid container (58) to be filled.

IPC 1-7
B67D 5/02; **F17C 5/00**; **G05D 16/10**

IPC 8 full level
B67D 7/64 (2010.01); **B67D 7/32** (2010.01); **B67D 7/48** (2010.01); **F17C 5/00** (2006.01)

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Citation (search report)

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