

Title (en)

An automatic device for topping up engine oil.

Title (de)

Einrichtung zur automatischen Nachfüllung mit Schmieröl.

Title (fr)

Dispositif de remplissage automatique de l'huile.

Publication

EP 0538660 B1 19951206 (EN)

Application

EP 92116855 A 19921001

Priority

IT TO910803 A 19911024

Abstract (en)

[origin: EP0538660A1] An automatic device for topping up the liquid in a container (C), particularly for topping up lubricating oil in the sump of an internal combustion engine, includes a sensor cylinder (10), an actuator cylinder (24), and programmed operating means (42, 48, 44) for moving the pistons (14, 22) of the sensor and actuator cylinders (10, 24). The presence or absence of liquid in the chamber (12) of the sensor cylinder (10) prevents or enables the sliding of the pistons (14, 22) so that the piston (22) of the actuator cylinder (24) supplies to the container (C) a quantity of liquid which is correlated with the level of the liquid in the container (C). <IMAGE>

IPC 1-7

F01M 11/04

IPC 8 full level

F01M 11/04 (2006.01)

CPC (source: EP)

F01M 11/04 (2013.01)

Cited by

CN107588185A; CN107606123A; DE19529733C1; US5836421A; EP0779413A1; EP0779414A1; GB2295015A; GB2295015B

Designated contracting state (EPC)

DE ES FR GB IT NL SE

DOCDB simple family (publication)

EP 0538660 A1 19930428; EP 0538660 B1 19951206; DE 69206576 D1 19960118; DE 69206576 T2 19960502; ES 2080407 T3 19960201; IT 1250322 B 19950407; IT TO910803 A0 19911024; IT TO910803 A1 19930425

DOCDB simple family (application)

EP 92116855 A 19921001; DE 69206576 T 19921001; ES 92116855 T 19921001; IT TO910803 A 19911024