

Title (en)
Level-dependent pump control

Title (de)
Niveauabhängige Steuerung von Pumpen

Title (fr)
Contrôle des pompes en fonction du niveau

Publication
EP 1233188 A1 20020821 (EN)

Application
EP 01830104 A 20010216

Priority
EP 01830104 A 20010216

Abstract (en)
A floating control device present in a pump suitable for being immersed in a reservoir wherein a liquid is present comprising: a float (14) oscillating between a first and a second position; a switch (10) of an electrical circuit associated to the float (14), suitable for opening the circuit when the float (14) is in the first position and to closing it when the float (14) is in the second position; a chamber (15) containing the float (14) suitable for being flooded from liquid; an inlet mouth (19) and an outlet mouth (18) for the liquid into and from the chamber (15); means for setting in the chamber (15) a flow of liquid between the inlet mouth (19) and the outlet mouth (18) that keeps the float (14) in the second position when the liquid decreases below a surface level lower than the float (14) up to a minimum surface level in the reservoir. The device has the advantages of allowing a reduction of the reservoir containing the liquid with respect to other pumps with float inside, since the level gap between the top zone where the float is present and the base of the pump is about the same height as the pump. Furthermore, simple installation, reduction of the assembling costs with respect to systems with float both inner than outer, protection against possible jamming of the float are possible. <IMAGE>

IPC 1-7
F04D 15/02

IPC 8 full level
F04D 15/02 (2006.01)

CPC (source: EP)
F04D 15/0227 (2013.01)

Citation (search report)
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