

Title (en)  
Improvements to a device for controlling the water discharge valve of a cistern for sanitary apparatus

Title (de)  
Verbesserungen einer Vorrichtung zur Kontrolle des Auslassventils eines Spülkastens

Title (fr)  
Améliorations d'un dispositif de contrôle d'une soupape d'évacuation pour un réservoir de chasse d'eau

Publication  
**EP 0913532 A3 19991020 (EN)**

Application  
**EP 98120399 A 19981028**

Priority  
IT TO970964 A 19971103

Abstract (en)  
[origin: EP0913532A2] The device (8) comprises a closure element (31) for the valve (31, 32), carried by a first float (29, 33), a member (82) operable for a predetermined stroke to raise the first float (29, 33), and a second float (41) concentric with the first float (29, 33) and having an hydrostatic thrust greater than the weight of the first float (29, 33). The second float (41) is normally held against rising by a hook (59) for controlling the partial emptying of the cistern (5), and is released to slow down the return to rest of the first float (29, 33), acting on the member (82) with a greater stroke. The member (82) is mounted on a cup-like connector (81) fixed in a hole (87) in a cover (88) of the cistern (5), while the valve (31, 32) is fixed to a base wall (6) of the cistern (5). A flange (129), carried by a hollow body (114) coaxial with the valve (31, 32), is engaged by the member (82) coaxial with the connector (81) to compensate for misalignment between the hole (87) and the valve (31, 32). <IMAGE>

IPC 1-7  
**E03D 1/14**; **E03D 1/30**

IPC 8 full level  
**E03D 1/14** (2006.01); **E03D 1/30** (2006.01)

CPC (source: EP)  
**E03D 1/144** (2013.01); **E03D 1/30** (2013.01)

Citation (search report)

- [A] EP 0801179 A2 19971015 - OLIVEIRA & IRMAO SA [PT]
- [A] EP 0578892 A1 19940119 - PORCHER ETS [FR]
- [A] FR 2676480 A1 19921120 - TOLBERT TIMOTHY [US]
- [A] EP 0801180 A2 19971015 - OLIVEIRA & IRMAO SA [PT]

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**EP 0913532 A2 19990506; EP 0913532 A3 19991020; EP 0913532 B1 20040714**; AU 738741 B2 20010927; AU 9044898 A 19990520; DE 69825011 D1 20040819; DE 69825011 T2 20050818; ES 2224318 T3 20050301; IL 126805 A0 19990817; IL 126805 A 20011031; IT 1295807 B1 19990527; IT TO970964 A0 19971103; IT TO970964 A1 19990503; PT 913532 E 20041130

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**EP 98120399 A 19981028**; AU 9044898 A 19981030; DE 69825011 T 19981028; ES 98120399 T 19981028; IL 12680598 A 19981029; IT TO970964 A 19971103; PT 98120399 T 19981028