

Title (en)

Apparatus for flushing a toilet bowl or the like

Title (de)

Vorrichtung zum Spülen eines Toilettenbeckens oder dergleichen

Title (fr)

Dispositif pour le rinçage d'une cuvette de toilette ou analogue

Publication

EP 1162320 A1 20011212 (EN)

Application

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Priority

FI 20001337 A 20000605

Abstract (en)

The present invention relates to an apparatus to be used for flushing a toilet bowl. The invention simplifies current apparatuses and allows stepless adjustment of the flush water amount, for instance by means of the opening period of an electrically controlled inlet valve (12), without opening the cover of the water tank (1). The supply water pressure, the float member (2) and the force of gravity are utilised to control the movement of the piston member (4) in the chamber (5) communicating with the mains, this movement, in turn, controlling the movement of the outlet valve (15), thus regulating the flush water amount. The level of the water surface (3) in the water tank (1) is monitored by means of any device or method. An electric sensor (11), for instance, can be used for this purpose. <IMAGE>

IPC 1-7

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IPC 8 full level

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CPC (source: EP)

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Citation (search report)

[A] US 5937455 A 19990817 - DONATI WILLIAM R [US]

Cited by

US9151028B2; EP1848864A4; EP1749941A1; EP1233111A3; US2010306911A1; WO2009007840A3; WO2009044206A3

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