

Title (en)

Automatic flush apparatus for a toilet tank

Title (de)

Automatischer Spülmechanismus für einen Spülkasten

Title (fr)

Dispositif déchargeur automatique de chasse d'eau

Publication

EP 1607531 A1 20051221 (EN)

Application

EP 04253667 A 20040618

Priority

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Abstract (en)

A toilet tank automatic flush apparatus includes a detection module (1) located outside the toilet water tank, a solenoid valve module (2) and a flush module (3). The solenoid valve module (2) is located outside the water tank (9) and connected to a water supply head (8), and is controlled by signals from the detection module (1) to activate a solenoid valve switch (21) to channel water from the water supply head (8) into a hydraulic cylinder (31) of the flush module (3) through a tube (34) to generate a hydraulic pressure to push a hydraulic arm (35) upwards to lift a rocker arm (32). The rocker arm (32) has a distal end fastening to a rope (33) to connect and open a water discharge valve (4) so that water in the water tank (9) may be flushed into the toilet in a large quantity. The solenoid valve switch (21) stops water supply after a preset time period. A spring (36) located in the hydraulic cylinder (31) pushes the hydraulic arm (35) and the rocker arm (32) downwards to release the rope (33) so that the water discharge valve (4) may be closed and water may flow into the water tank (9) again. <IMAGE>

IPC 1-7

E03D 5/02; **E03D 5/10**

IPC 8 full level

E03D 5/02 (2006.01); **E03D 5/10** (2006.01)

CPC (source: EP)

E03D 5/024 (2013.01); **E03D 5/10** (2013.01)

Citation (search report)

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