

Title (en)
TOILET FLUSHER WITH NOVEL VALVES AND CONTROLS

Title (de)
TOILETTENSPÜLER MIT NEUARTIGEN VENTILEN UND STEUERUNGEN

Title (fr)
CHASSE D'EAU MUNIE DE NOUVELLES SOUPAPES ET COMMANDES

Publication
EP 1461554 A2 20040929 (EN)

Application
EP 01995135 A 20011120

Priority

- US 0143273 W 20011120
- US 71687000 A 20001120
- US 76140801 A 20010116
- US 76153301 A 20010116
- US 0111384 W 20010406
- US 95776101 A 20010921

Abstract (en)
[origin: WO0242670A2] A tank-type flusher (300) includes an intake valve, i.e., a fill valve, (302), a diaphragm-operated flush valve (304), and a pressure control mechanism (306). The intake valve is connected to an external water source and is constructed to close water flow to a water storage tank (16) at about a predefined water level in the water tank. The diaphragm-operated flush valve is constructed to control a flush valve member between a seated state and an unseated state allowing water discharge from the water tank into a toilet bowl. There is a diaphragm, separating a flush-valve chamber and a pilot chamber, arranged to seal the flush-valve chamber and thereby maintain pressure forcing the flush valve member to the seated state preventing the water discharge from the water storage tank to the toilet bowl. The pressure control mechanism is constructed and arranged, upon actuation, to reduce pressure in the pilot chamber of the diaphragm-operated flush valve to cause deformation of the diaphragm and thereby reduce pressure in the flush-valve chamber causing the water discharge.

IPC 1-7
F16K 31/385

IPC 8 full level
E03D 1/14 (2006.01); **E03D 3/06** (2006.01); **E03D 5/02** (2006.01)

CPC (source: EP)
E03D 1/142 (2013.01); **E03D 1/30** (2013.01); **E03D 3/06** (2013.01); **E03D 5/024** (2013.01); **E03D 5/10** (2013.01); **F16K 31/406** (2013.01)

Citation (search report)
See references of WO 0242670A2

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
WO 0242670 A2 20020530; **WO 0242670 A3 20040527**; AU 2564602 A 20020603; CA 2429531 A1 20020530; CA 2429531 C 20100119; EP 1461554 A2 20040929; IL 156012 A0 20031223; IL 156012 A 20100616

DOCDB simple family (application)
US 0143273 W 20011120; AU 2564602 A 20011120; CA 2429531 A 20011120; EP 01995135 A 20011120; IL 15601201 A 20011120; IL 15601203 A 20030520