

Title (en)
Outlet valve for flushing cisterns

Title (de)
Ablaufventil für Spülkästen

Title (fr)
Soupape d'évacuation pour réservoirs de chasse

Publication
EP 0915210 A3 19991020 (DE)

Application
EP 98120768 A 19981102

Priority
DE 19748621 A 19971104

Abstract (en)
[origin: US6094753A] A flush valve has a valve ring defining a downwardly open valve port and an overflow tube centered on an upright axis and having a lower end seatable on the port. The tube is displaceable relative to the port between a lower closed position and an upper open position. Mechanism inside the tube can lift the tube into the open position and thereby allow water in the tank to move down and out through the port. A lower float vertically fixed in the tank is displaceable between a latching position and a releasing position and is constructed such that when submerged it normally assumes the latching position. A latch on the lower float engageable with the tube can hold the tube in the open position and can release the tube for movement into the closed position and ending of a flushing cycle. An upper float in the tank above the lower float has a part engageable with the lower float for displacing same into the releasing position on downward displacement of the upper float toward the lower float. A link displaceable between a coupling position preventing downward movement of the upper float and a decoupling position allows the upper float to move downward and a partial-flush actuating element is effective on the link for displacing same between the coupling and decoupling positions so that in the decoupling position downward floating of the upper float will displace the lower float into the releasing position and prematurely end a flushing cycle.

IPC 1-7
E03D 1/14

IPC 8 full level
E03D 1/14 (2006.01)

CPC (source: EP US)
E03D 1/144 (2013.01 - EP US)

Citation (search report)
• [A] WO 9717503 A1 19970515 - RAGOT CLAUDE [FR]
• [A] US 4945581 A 19900807 - HARRIS JOHN L [US]
• [A] DE 4302245 A1 19930916 - CHANG FONG CHYI [TW]
• [A] FR 2744742 A1 19970814 - PIAT MOISE [FR]
• [A] FR 2698645 A1 19940603 - SPMP [FR]

Cited by
FR2819835A1; GB2390617A; GB2390617B; CN1318706C; WO02059431A1; US6920649B2; EP3900530A1; WO2021213824A1

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

DOCDB simple family (publication)
US 6094753 A 20000801; AT E288519 T1 20050215; AU 746540 B2 20020502; AU 9048398 A 19990527; BR 9804410 A 20010320; DE 19748621 A1 19990506; DE 59812533 D1 20050310; EP 0915210 A2 19990512; EP 0915210 A3 19991020; EP 0915210 B1 20050202; ES 2237817 T3 20050801; ZA 989732 B 19990504

DOCDB simple family (application)
US 17616298 A 19981021; AT 98120768 T 19981102; AU 9048398 A 19981102; BR 9804410 A 19981020; DE 19748621 A 19971104; DE 59812533 T 19981102; EP 98120768 A 19981102; ES 98120768 T 19981102; ZA 989732 A 19981026