

Title (en)

An automatic flushing device for a flush toilet.

Title (de)

Automatische Spüleinrichtung für eine Spültoilette.

Title (fr)

Chasse d'eau automatique pour une toilette.

Publication

EP 0453702 A1 19911030 (EN)

Application

EP 91100179 A 19910108

Priority

CA 2015417 A 19900425

Abstract (en)

An automatic flushing device for a flush toilet comprising an infrared sensor (231) and an electronic circuit connected with the infrared sensor (231), which is possible to sense the length of time the toilet has been used and to actuate the electronic circuit to energize a coil (24) to move magnetically up a round block (31) connected with a rhomboidal (3 ball (35) normally blocking an outlet (4) of a tank for three different lengths of time and accordingly for flushing water in three different volumes out of the outlet (4) <IMAGE>

IPC 1-7

E03D 1/22; **E03D 5/10**

IPC 8 full level

E03D 1/22 (2006.01); **E03D 5/10** (2006.01)

CPC (source: EP)

E03D 5/10 (2013.01)

Citation (search report)

- [A] GB 1509600 A 19780504 - YEE KYAR UN
- [A] US 3908204 A 19750930 - HOPKINS CHARLES L
- [A] US 4141091 A 19790227 - PULVARI CHARLES F
- [A] US 4793588 A 19881227 - LAVERTY JR MARTIN J [US]

Cited by

CN105220745A; EP1687491A4; FR2986248A1; FR2770547A1; US6226807B1; WO0036235A1; WO9402691A1; US11091903B2

Designated contracting state (EPC)

AT BE CH DE ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)

EP 0453702 A1 19911030; **EP 0453702 B1 19921223**; AT E83819 T1 19930115; AU 620749 B2 19920220; AU 6867991 A 19911107; CA 2015417 A1 19911025; CA 2015417 C 19960625; DE 69100015 D1 19930204; DE 69100015 T2 19930422; ES 2036905 T3 19930601; GR 3006665 T3 19930630

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EP 91100179 A 19910108; AT 91100179 T 19910108; AU 6867991 A 19910104; CA 2015417 A 19900425; DE 69100015 T 19910108; ES 91100179 T 19910108; GR 920403033 T 19921224