

Title (en)  
DEVICE FOR CLEANING CLOGGED DRAINS

Publication  
**EP 0399357 A3 19911009 (DE)**

Application  
**EP 90109228 A 19900516**

Priority  
DE 3916911 A 19890524

Abstract (en)  
[origin: EP0399357A2] A device for cleaning clogged drains, consisting of a conventional aerosol can with outlet valve and protective cap, is to be improved in that it can be refilled with an environmentally friendly propellant and has an operator-friendly actuation lock. This is achieved in that the aerosol can (2) is filled with compressed air and, for its refilling, the region (14), enclosing the valve pin (13), of the protective cap (3) is extended as a free-standing cylindrical tube-shaped adaptor (16), and the actuation lock can be released by relative rotation of aerosol can (2) and protective cap (3). <IMAGE>

IPC 1-7  
**E03C 1/30**

IPC 8 full level  
**B08B 9/032** (2006.01); **B65D 83/20** (2006.01); **E03C 1/30** (2006.01)

CPC (source: EP)  
**B05B 1/005** (2013.01); **B65D 83/20** (2013.01); **B65D 83/22** (2013.01); **E03C 1/30** (2013.01)

Citation (search report)  
• [AD] AT 362319 B 19810427 - SKOWRONNEK FRIEDRICH KARL  
• [A] US 3868978 A 19750304 - KNOPF KARL HORST  
• [A] US 3601290 A 19710824 - NIGRO LOUIS V

Cited by  
EP2181062A4; EP1537027A4; WO9314273A1

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

DOCDB simple family (publication)  
**EP 0399357 A2 19901128; EP 0399357 A3 19911009; EP 0399357 B1 19930630**; AT E91163 T1 19930715; DE 3916911 C1 19901018; DE 59001879 D1 19930805; DK 0399357 T3 19930823; ES 1014001 U 19910201; ES 1014001 Y 19910716; ES 2041469 T3 19931116; PT 94120 A 19910108; PT 94120 B 19960930

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