

Title (en)
SELF-DISINFECTING DRAIN TRAP IN DRAINAGE CHANNELS

Title (de)
SELBSTDESINFIZIERENDER GERUCHVERSCHLUSS IN ABWASSERLEITUNGEN

Title (fr)
JOINT HYDRAULIQUE AUTODESINFECTANT D'UNE CONDUITE D'EAUX RESIDUAIRES

Publication
EP 1159493 B1 20050706 (DE)

Application
EP 99919068 A 19990311

Priority
DE 9900678 W 19990311

Abstract (en)
[origin: WO0053857A1] A self-disinfecting drain trap system designed to automatically clean and disinfect drain traps in drainage channels. Cleaning and disinfection occur automatically during normal usage without interrupting the functions of the drainage trap. The new drain trap works according to a novel combination of electromechanical oscillation, preferably ultrasound, heating of the interior of the drain trap and sealing liquid, and prevention of fouling on the inner wall by means of an effective antifouling antimicrobial coating. The risk of aftergrowth on sanitary equipment, fittings and in ambient air due to micro-organisms from drainage channels is thus effectively combated.

IPC 1-7
E03C 1/126

IPC 8 full level
E03C 1/126 (2006.01); **E03F 5/20** (2006.01)

CPC (source: EP US)
E03C 1/126 (2013.01 - EP US)

Cited by
DE102005015129A1; DE102005015129B4; US10428500B2; WO2013071941A1; DE102015118193A1; WO2017072043A1

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)
WO 0053857 A1 20000914; AT E299207 T1 20050715; AU 3699099 A 20000928; CA 2365931 A1 20000914; CA 2365931 C 20070828; CZ 20013266 A3 20020213; CZ 297574 B6 20070207; DE 19983157 D2 20020711; DE 59912247 D1 20050811; DK 1159493 T3 20051031; EP 1159493 A1 20011205; EP 1159493 B1 20050706; ES 2245508 T3 20060101; NO 20014385 D0 20010910; NO 20014385 L 20011018; NO 325477 B1 20080513; PL 191843 B1 20060731; PL 350800 A1 20030210; PT 1159493 E 20051130; SI 1159493 T1 20051231; SK 12812001 A3 20020404; SK 286503 B6 20081205; US 6666966 B1 20031223

DOCDB simple family (application)
DE 9900678 W 19990311; AT 99919068 T 19990311; AU 3699099 A 19990311; CA 2365931 A 19990311; CZ 20013266 A 19990311; DE 19983157 T 19990311; DE 59912247 T 19990311; DK 99919068 T 19990311; EP 99919068 A 19990311; ES 99919068 T 19990311; NO 20014385 A 20010910; PL 35080099 A 19990311; PT 99919068 T 19990311; SI 9930821 T 19990311; SK 12812001 A 19990311; US 93631802 A 20020626