

Title (en)

MANUAL DEVICE FOR CLEANING BLOCKED DRAINS

Publication

**EP 0223879 B1 19900523 (DE)**

Application

**EP 85116554 A 19851224**

Priority

DE 8533252 U 19851126

Abstract (en)

[origin: US4674137A] A manual device for cleaning clogged drains has a manual pump and an electric suction cup, which is mounted on the pump, and communicates with an outlet of the pump. A piston rod with a piston and controllable seals are arranged on the manual pump and together form a valve. During repeated reciprocal displacement of the piston rod, the pump may be selectively operated in a suction mode, withdrawing particles from the drain by aspiration, or in a pressure mode, blasting particles through the drain, depending on the valve adjustment. The device therefore achieves an effective cleansing of drains from clogged particles, while providing convenient handling for a user.

IPC 1-7

**E03C 1/308; F04B 9/14**

IPC 8 full level

**E03C 1/30** (2006.01); **A47K 11/10** (2006.01); **B08B 9/035** (2006.01); **E03C 1/308** (2006.01); **F04B 9/14** (2006.01)

CPC (source: EP US)

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**DE 8533252 U 19851126**; BR 8600342 A 19860129; DD 28599786 A 19860107; DE 3577895 T 19851224; EP 85116554 A 19851224; JP 2306986 A 19860206; US 83915486 A 19860313