

Title (en)

BACKFLOW PREVENTER FOR SANITARY SYSTEMS, ESPECIALLY FOR INSTALLATION IN A SANITARY FITTING

Publication

EP 0370281 B1 19920129 (DE)

Application

EP 89120247 A 19891102

Priority

DE 3839650 A 19881124

Abstract (en)

[origin: US4977920A] A pipe interrupter, which is particularly suitable for installation in a sanitary fitting, comprises in a housing a chamber, into which a water-supply passage, a water-discharge passage and a ventilation path open. Located in the chamber is a rolling membrane, which is fixed at the peripheral region. Normally, thus as long as there is no reduced pressure in the supply passage, the rolling membrane bears in the central region against the opening aperture of the ventilation path in the chamber, so that on the one hand no atmospheric air may enter and on the other hand no water may escape. However, if reduced pressure occurs in the pipe system, which is connected to the supply passage, then the rolling membrane overturns so that now on the opposite side of the central region it closes the opening point of the supply passage into the chamber. On the other side, a ventilation path to the chamber is exposed. This ventilation path continues by way of a through-flow opening in the edge region of the rolling membrane towards the discharge passage. In this way, water can no longer flow back into the supply passage and into the pipe system connected thereto; on the other hand, the water-ways following the chamber are ventilated.

IPC 1-7

E03C 1/10

IPC 8 full level

E03C 1/10 (2006.01)

CPC (source: EP US)

E03C 1/108 (2013.01 - EP US); **Y10T 137/2544** (2015.04 - EP US); **Y10T 137/3331** (2015.04 - EP US)

Cited by

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Designated contracting state (EPC)

AT CH ES FR GB IT LI NL SE

DOCDB simple family (publication)

US 4977920 A 19901218; AT E72279 T1 19920215; AU 4534589 A 19900531; AU 619621 B2 19920130; CA 2003722 A1 19900524; DE 3839650 C1 19900215; EP 0370281 A2 19900530; EP 0370281 A3 19900912; EP 0370281 B1 19920129; ES 2029108 T3 19920716; FI 86098 B 19920331; FI 86098 C 19920710; FI 895547 A0 19891121

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US 43434389 A 19891113; AT 89120247 T 19891102; AU 4534589 A 19891120; CA 2003722 A 19891123; DE 3839650 A 19881124; EP 89120247 A 19891102; ES 89120247 T 19891102; FI 895547 A 19891121