

Title (en)
DISCONNECTOR (BACKFLOW PREVENTION DEVICE)

Title (de)
TRENNSCHALTER (RÜCKFLUSSVERHINDERUNGSVORRICHTUNG)

Title (fr)
SÉPARATEUR (CLAPET ANTI-RETOUR)

Publication
EP 4200484 A1 20230628 (EN)

Application
EP 21858740 A 20210820

Priority
• TR 202013269 A 20200821
• TR 2021050843 W 20210820

Abstract (en)
[origin: WO2022039710A1] The present invention relates to a valve that controls the passage of fluids and their pressure-related directions in combi boilers and similar devices. It is defined by it is a disconnecter product having a double check valve that prevents passage of system water into mains water and a discharge system. The valve has a seamless body structure with a compact size, made of a thermoplastic material, and resistant to high levels of temperature and pressure. Aggressive outer ribs thereof provide an aesthetic appearance. It is a backflow preventer used for protecting both users and the system in combi boilers and similar devices. The backflow preventer is a double check valve component that does not allow the passage of used water back into the mains water system. Its operating mechanism is configured to ensure the discharge of outlet water without passing into the feed water if the outlet check valve /one-way valve fails for some reason when the outlet pressure is greater than the supply pressure. The solution aimed with the backflow preventer, which is the subject matter of the invention, is to prevent the contamination of drinking water by preventing the installation water from mixing with the mains water in combi boilers and similar devices.

IPC 8 full level
E03C 1/10 (2006.01); **F16K 15/06** (2006.01); **F16K 15/14** (2006.01); **F16K 17/34** (2006.01); **F16L 55/105** (2006.01); **F24D 3/10** (2006.01); **F24D 19/08** (2006.01); **F24D 19/10** (2006.01)

CPC (source: EP)
E03C 1/106 (2013.01); **F16K 15/063** (2013.01); **F24D 2220/025** (2013.01); **Y02A 20/20** (2018.01)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
WO 2022039710 A1 20220224; CN 116324244 A 20230623; EP 4200484 A1 20230628; TR 202013269 A1 20220321

DOCDB simple family (application)
TR 2021050843 W 20210820; CN 202180065151 A 20210820; EP 21858740 A 20210820; TR 202013269 A 20200821