

Title (en)

Boiler with devices for optimising the supply of hot water for sanitary purposes, and the corresponding method

Title (de)

Heizkessel mit Geräten zum Optimieren der Trinkwasserversorgung und korrespondierendes Verfahren

Title (fr)

Chaudière comportant des appareils pour l'optimisation la distribution d'eau chaude sanitaire et procédé correspondant

Publication

EP 1710511 A2 20061011 (EN)

Application

EP 06003351 A 20060220

Priority

IT PC20050016 A 20050404

Abstract (en)

This invention relates to a boiler for instant heating and production of sanitary water with a double heat exchanger (1, 11) or a single integrated bithermal heat exchanger, containing devices (14) able to optimise the supply of sanitary hot water by regulating the flow rate in such a way as to limit the flow until it reaches the required temperature, and then increasing the flow as it approaches the selected temperature. Waiting times are therefore considerably reduced, and the wastage of water that normally takes place at the start of each use is almost entirely eliminated. In the boiler according to the invention, the flow of hot water is also constantly monitored when the boiler is in full operation, and the devices (14) may intervene to limit it, depending on the characteristics of the boiler and the input parameters such as the water temperature and pressure, so as to guarantee the maximum possible flow at the required temperature, depending on the type of boiler and the operating conditions. The invention also relates to the method of management of the appliance.

IPC 8 full level

F24D 19/10 (2006.01); **F24D 3/08** (2006.01)

CPC (source: EP US)

F24D 19/1069 (2013.01 - EP US); **F24H 1/52** (2013.01 - EP); **F24H 15/174** (2022.01 - EP US); **F24H 15/219** (2022.01 - EP US); **F24H 15/238** (2022.01 - EP US); **F24H 15/36** (2022.01 - EP US); **F24H 15/414** (2022.01 - EP US)

Cited by

CN101852460A; EP1884720A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 1710511 A2 20061011; IT PC20050016 A1 20061005

DOCDB simple family (application)

EP 06003351 A 20060220; IT PC20050016 A 20050404