Title (en)

Method for heating water according to the circulation principle and water heating system

Title (de)

Verfahren zur Erwärmung von Wasser nach dem Durchlaufprinzip und Wassererwärmungssystem

Title (fr)

Procédé de chauffage d'eau en continu et système de chauffage d'eau

Publication

EP 2372259 A3 20140122 (DE)

Application

EP 11159306 A 20110323

Priority

DE 102010013139 A 20100327

Abstract (en)

[origin: EP2372259A2] The method involves measuring outlet temperature (Tw) and/or volume flow of water by measuring sensors (8-10) arranged in a water path. The outlet temperature of the water is regulated to a predetermined water-reference temperature based on heat output of a heat generator (1), such that the generator is switched-on and a pump (4) is switched to a low hot fluid volume flow during reaching of minimally-permissible outlet temperature, and the heat generator is switched-off and the pump is switched to high hot fluid volume flow during reaching of maximally-permissible outlet temperature. An independent claim is also included for a water heating system comprising a heat generator.

IPC 8 full level

F24D 19/10 (2006.01)

CPC (source: EP US)

F24D 19/1009 (2013.01 - EP US); **F24D 19/1069** (2013.01 - EP US); **F24H 15/174** (2022.01 - EP US); **F24H 15/219** (2022.01 - EP US); **F24H 15/238** (2022.01 - EP US); **F24H 15/355** (2022.01 - EP US); F24H 15/176 (2022.01 - EP US)

Citation (search report)

- [XAI] EP 0886110 A2 19981223 - BOSCH GMBH ROBERT [DE]
- [XAI] DE 19725952 A1 19990128 - BOSCH GMBH ROBERT [DE]
- [XAI] EP 1691138 A2 20060816 - BOSCH GMBH ROBERT [DE]
- [A] EP 0556736 A1 19930825 - VAILLANT JOH GMBH & CO [DE]

Cited by

CN110579023A; CN115597238A; EP3604933A4; WO2023235393A1

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

DOCDB simple family (publication)

EP 2372259 A2 20111005; **EP 2372259 A3 20140122**; **EP 2372259 B1 20160511**; DE 102010013139 A1 20110929; ES 2586689 T3 20161018; PT 2372259 T 20160714

DOCDB simple family (application)

EP 11159306 A 20110323; DE 102010013139 A 20100327; ES 11159306 T 20110323; PT 11159306 T 20110323