Title (en)

Detection of anomalies in a system for supplying hot water

Title (de)

Erkennung von Anomalien in einem Heißwasserzuführsystem

Title (fr)

Détection d'anomalie dans un système de fourniture d'eau chaude

Publication

EP 2743602 B1 20160309 (FR)

Application

EP 13197567 A 20131216

Priority

FR 1262160 A 20121217

Abstract (en)

[origin: EP2743602A1] The module has a temperature sensor (19.1) to measure temperature of water in a restart balloon (12). A volume sensor (16) measures a volume drawn by a system. A restart unit (24) triggers immersion heaters (18.1-18.3) based on the volume. A detection unit (23) detects anomaly on the heater based on the temperature and/or restart of the restart unit at an instant in which time slots are predefined. The heaters are active during another time slot in which a restart threshold is preset. The restart unit triggers the heaters if the volume is greater than the threshold at a portion of the slot. Independent claims are also included for the following: (1) a hot water supply system (2) a method for detection of an anomaly in a hot water supply system (3) a computer program product comprising program code instructions recorded on a computer readable medium for a method for detection of an anomaly in a hot water supply system.

IPC 8 full level

F24H 9/20 (2006.01); **F24D 19/10** (2006.01)

CPC (source: EP US)

F24D 19/1051 (2013.01 - EP US); **F24H 9/2021** (2013.01 - EP US); **F24H 15/124** (2022.01 - EP US); **F24H 15/20** (2022.01 - EP US); **F24H 15/223** (2022.01 - EP US); **F24H 15/37** (2022.01 - EP US); **F24H 15/395** (2022.01 - EP US); **F24H 15/421** (2022.01 - EP US); F24D 2220/042 (2013.01 - EP); F24D 2220/044 (2013.01 - EP)

Cited by

CN108800595A; FR3025296A1; WO2016030606A1; WO2018027760A1

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

DOCDB simple family (publication)

EP 2743602 A1 20140618; **EP 2743602 B1 20160309**; FR 2999688 A1 20140620; FR 2999688 B1 20180824

DOCDB simple family (application)

EP 13197567 A 20131216; FR 1262160 A 20121217