

Title (en)

BOILER AND METHOD FOR DETECTING A BACKFLOW OF A FLUID IN A COMBUSTION CHAMBER OF THE BOILER

Title (de)

KESSEL UND VERFAHREN ZUR ERKENNUNG EINES FLÜSSIGKEITSRÜCKFLUSSES IN EINER BRENNKAMMER DES KESSELS

Title (fr)

CHAUDIÈRE ET PROCÉDÉ DE DÉTECTION D'UN REFLUX DE FLUIDE DANS UNE CHAMBRE DE COMBUSTION DE LA CHAUDIÈRE

Publication

**EP 4374116 A1 20240529 (EN)**

Application

**EP 22743513 A 20220721**

Priority

- EP 21187114 A 20210722
- EP 2022070459 W 20220721

Abstract (en)

[origin: EP4123241A1] The invention relates to a system (10) for detecting a backflow of a fluid, in particular a backflow of a fluid originating from a blocked condensate trap, in a combustion chamber (20) of a boiler (100), in particular for domestic hot water generation or central heating, wherein a burner (30) for combusting fuel gas, in particular including hydrogen, is arranged within the combustion chamber (20), characterized in that a sensor (40) for detecting fluid includes at least one probe (41) that is adapted and arranged in a lower part (21) of the combustion chamber (20) to get into physical contact with the fluid.

IPC 8 full level

**F24H 8/00** (2022.01)

CPC (source: EP)

**F24H 8/006** (2013.01)

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)

**EP 4123241 A1 20230125**; EP 4374116 A1 20240529; WO 2023001949 A1 20230126

DOCDB simple family (application)

**EP 21187114 A 20210722**; EP 2022070459 W 20220721; EP 22743513 A 20220721