

Title (en)  
BOILER HAVING EXHAUST GAS TEMPERATURE CONTROL UNIT USING TEMPERATURE SENSOR AND METHOD FOR CONTROLLING SAME

Title (de)  
HEIZKESSEL MIT ABGASTEMPERATURSTEUEREINHEIT MITTELS EINES TEMPERATURSENSORS UND STEUERUNGSVERFAHREN DAFÜR

Title (fr)  
CHAUDIÈRE AYANT UNE UNITÉ DE COMMANDE DE TEMPÉRATURE DE GAZ D'ÉCHAPPEMENT UTILISANT UN CAPTEUR DE TEMPÉRATURE ET PROCÉDÉ POUR SA COMMANDE

Publication  
**EP 2868994 A1 20150506 (EN)**

Application  
**EP 13787441 A 20130405**

Priority  
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• KR 2013002832 W 20130405

Abstract (en)  
The present invention provides a boiler having an exhaust gas temperature control unit using a temperature sensor, the boiler comprising: a combustion and exhaust unit having a burner for combusting fuel to generate heat, an exhaust port for discharging the combustion residue outside the boiler, and an exhaust pipe connected to the exhaust port, for guiding the combustion residue into the open air; a circulation unit for circulating hot water to provide hot water and heat for the user; a heat exchange unit for absorbing the heat generated from the burner to make hot water and for supplying the hot water to the circulation part, with both ends of the heat exchange part being connected to the circulation part; and a control unit including an outlet temperature sensor arranged in the outlet of the heat exchange unit, for measuring the temperature of the hot water, an inlet temperature sensor arranged in the inlet of the heat exchange unit, for measuring the temperature of the cold water introduced from the circulation unit, and a controller for calculating the temperatures measured by the inlet and outlet temperature sensors so as to control whether to operate the boiler or not. Thus the exhaust pipe may be made of cheap PVC and the use of PVC facilitates installation. Further, the existing temperature sensors may be used to control the boiler and thus an additional control device is not needed, thereby reducing installation costs.

IPC 8 full level  
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Cited by  
CN103742965A; CN107228364A; CN109210804A

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