

Title (en)

DEVICE TO REGULATE AND OPTIMIZE COMBUSTION IN SOLID-FUEL HEATING DEVICES

Title (de)

VORRICHTUNG ZUR REGELUNG UND OPTIMIERUNG DER VERBRENNUNG IN FESTBRENNSTOFFHEIZVORRICHTUNGEN

Title (fr)

DISPOSITIF POUR RÉGULER ET OPTIMISER LA COMBUSTION DANS DES DISPOSITIFS DE CHAUFFAGE À COMBUSTIBLE SOLIDE

Publication

**EP 3420279 B1 20200408 (EN)**

Application

**EP 17707001 A 20170223**

Priority

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Abstract (en)

[origin: WO2017144614A1] The subject of the invention is a device from the field of regulation and automatic regulation of flue gas flow to ensure the optimal conditions of combustion and from the field of regulation and/or control of combustion. A device to regulate and optimize combustion in solid-fuel heating devices characterized by including a control unit with a preprogrammed algorithm that, on the basis of the received commands triggered by the power being switched on with a switch, remote control, smartphone or smart tablet, received data from the flue gases sensor, the sensor for residual oxygen in the flue gases and a negative pressure sensor, opens or closes a system of three regulation flaps; including a negative pressure sensor with the purpose of regulating the air flaps and performing the safety functions; the control unit, when it detects a negative pressure, enables the control of the air flaps during the various phases of combustion to achieve the desired air flow and performs the safety function of preventing the escape of flue gases into the room.

IPC 8 full level

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