

Title (en)

Multiphase method for controlling an air flow into the hearth of a fireplace for solid fuels, especially wood

Title (de)

Mehrphasiges Verfahren zur Steuerung einer Luftströmung im Inneren eines Kamins für feste Brennstoffe, insbesondere Holz

Title (fr)

Procédé multiphase pour commander un écoulement d'air dans le sol d'un foyer de cheminée pour combustibles solides, notamment de bois

Publication

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Application

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Priority

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Abstract (en)

[origin: EP2902709A1] The object of the present invention is a multiphase method for controlling an air flow into the hearth of a fireplace for solid fuels, especially wood, within a system comprising the said fireplace with the hearth, an intake air damper (2), a sensor (3) of combustion gas temperature, a water jacket connected to a heating circuit through at least one pump (5, 6, 7), a sensor (4) of water temperature in the water jacket and a controller (1), connected at least with the sensor (3) of combustion gas temperature, with the sensor (4) of water temperature in the water jacket, with the intake air damper (2) and with at least one pump (5, 6, 7), characterised in that, by means of the sensor (3) of combustion gas temperature, temperature of combustion gases (T combustion gas ) produced as a result of solid fuel combustion in the fireplace hearth is measured, and depending on this temperature, the air flow to the hearth is controlled by controlling the opening of the intake air damper (2).

IPC 8 full level

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