

Title (en)

FUEL-FIRED FURNACE AND METHOD FOR CONTROLLING COMBUSTION IN A FUEL-FIRED FURNACE

Title (de)

MIT BRENNSTOFF BEFEUERTER OFEN UND VERFAHREN ZUR VERBRENNUNGSREGELUNG IN EINEM BRENNSTOFFBEFEUERTEN OFEN

Title (fr)

FOUR À FLAMME ET PROCÉDÉ DE RÉGULATION DE LA COMBUSTION DANS UN FOUR À FLAMME

Publication

EP 2561295 B1 20180516 (FR)

Application

EP 11719312 A 20110330

Priority

- FR 1053147 A 20100423
- FR 2011050703 W 20110330

Abstract (en)

[origin: WO2011131880A1] Fuel-fired furnace and a method for operating it, in which method: a main oxidizing agent is injected at a controlled flow rate into the combustion chamber (2) of the furnace; the combustible material is burnt in the combustion chamber (2) with the main oxidizing agent, producing thermal energy and flue gases (6) at a temperature higher than 600°C; the flue gases (6) are removed via an exhaust duct (13), said removed flue gases (6) possibly containing residual materials that could be oxidized, the exhaust duct (13) being equipped with an inlet (14) for a diluting oxidizing agent downstream of the combustion chamber (2); the residual materials that could be oxidized are burnt with the diluting oxidizing agent by means of a flame (12) at the inlet (14) for the diluting oxidizing agent; the flame intensity inside the exhaust duct (12) is detected; and the flow rate at which the main oxidizing agent is injected into the combustion chamber (2) is controlled according to the detected flame intensity.

IPC 8 full level

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CPC (source: EP US)

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Citation (opposition)

Opponent : Linde Aktiengesellschaft /Dr. Bernd Gellner/

- ES 2207389 A1 20040516 - AL AIR LIQUIDE ESPANA S A [ES]
- WO 2006117336 A1 20061109 - AIR LIQUIDE [FR], et al
- US 6247416 B1 20010619 - BEAUDOIN PHILIPPE [DE], et al
- EP 0553632 B1 19961127 - LINDE AG [DE]
- EP 2159525 A1 20100303 - AIR LIQUIDE DEUTSCHLAND GMBH [DE]

Cited by

CN112066407A; WO2019034283A1; EP4202297A1

Designated contracting state (EPC)

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