

Title (en)

METHOD AND DEVICE FOR CONTROLLING THE COMBUSTION IN FURNACE SYSTEMS

Title (de)

VERFAHREN UND VORRICHTUNG ZUR REGELUNG DER VERBRENNUNG IN FEUERUNGSANLAGEN

Title (fr)

PROCÉDÉ ET DISPOSITIF DE RÉGLAGE DE LA COMBUSTION DANS DES INSTALLATIONS DE CHAUFFAGE

Publication

**EP 4058727 A1 20220921 (DE)**

Application

**EP 20804255 A 20201110**

Priority

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- EP 2020081593 W 20201110

Abstract (en)

[origin: CA3158466A1] The application relates to a method for controlling the combustion in furnace systems, wherein an oxygen coefficient is determined from the temperature in a combustion chamber area and/or in the waste-gas flues of the furnace system and also on the basis of an energy balance of the combustion process in the single-chamber furnace system, the combustion air and the waste gas, and said oxygen coefficient is used to control the primary and secondary combustion material flows and therefore the thermal output and also the combustion quality. The invention also relates to a device for feeding combustion air in the furnace chamber of a furnace system, which device has a chamber (1), which on a first side has a main duct (2) for feeding ambient air and/or air from the chimney system and on a second side has a pane-washing air duct (3) and a secondary-air duct (4), both the pane-washing air duct (3) and the secondary-air duct (4) being provided with a motor-controlled valve (5) so that the pane-washing air duct (3) and the secondary-air duct (4) are closable independently of one another, the valves (5) being connected to a stepless motor (6, 7) so that the valves (5) can be moved steplessly.

IPC 8 full level

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See references of WO 2021094291A1

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