

Title (en)

RADIANT TUBE BURNER COMPRISING A CATALYST BED FOR A HEAT TREATMENT FURNACE

Publication

EP 0261462 B1 19910123 (DE)

Application

EP 87112805 A 19870902

Priority

DE 3632577 A 19860925

Abstract (en)

[origin: EP0261462A2] The radiant tube burner for furnaces for heat-treating metallic workpieces under the action of a treatment gas generated by catalytic reaction of a feed gas has a shell tube, which has gas outlet orifices at its end, an inner tube which is coaxially arranged in and at a distance from the shell tube and in which at least one burner tube and an air feed tube are arranged, and also a catalyst bed which at least partially fills the interspace between the shell tube and the inner tube. To improve the controllability of the composition of the treatment gas, it is proposed that at least one burner tube of the radiant tube burner is displaceable in the longitudinal direction thereof.

IPC 1-7

C21D 1/52; **C21D 1/76**; **F27D 23/00**

IPC 8 full level

C21D 1/52 (2006.01); **C21D 1/76** (2006.01); **F27D 99/00** (2010.01)

CPC (source: EP)

C21D 1/52 (2013.01); **C21D 1/763** (2013.01); **F27D 99/0035** (2013.01)

Cited by

EP0435033A1; FR2791419A1; EP0695807A1; EP0458183A3; US5160380A; US6494712B1; WO0058678A1; JP2002540378A

Designated contracting state (EPC)

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EP 0261462 A2 19880330; **EP 0261462 A3 19880727**; **EP 0261462 B1 19910123**; AT E60366 T1 19910215; DE 3632577 A1 19880505; DE 3767626 D1 19910228; ES 2020979 B3 19911016

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