

Title (en)

PROCESS AND DEVICE FOR MINIMIZING THE SOUND EMISSION OF A PREMIX BURNER

Publication

EP 0035153 B1 19840704 (DE)

Application

EP 81101062 A 19810216

Priority

DE 8005891 U 19800301

Abstract (en)

[origin: EP0035153A1] 1. A process of minimizing the radiation of sound from a premixing burner, which is fed with a gas-air mixture, comprising at least one gas nozzle, which is associated with an injector, and combustion slots, characterized in that the gas is defined (Wobbe number) and the minimum sound radiation is defined as well as the heat output (which is determinable from the total flow area and the gas velocity in the nozzle or nozzles and the total flow area of the injector is defined by the relation see diagramm : EP0035153,P8,F1 wherein V is the sum of the entire gas and air flow, P is a proportionality factor, N is the predetermined maximum sound radiation and K is a constant, which is determined by the Wobbe member, the sound velocity, the load per unit of nozzle area, and the total nozzle area, and the load per unit of combustion area is determined by the relation see diagramm : EP0035153,P8,F2

IPC 1-7

F23D 13/36

IPC 8 full level

F23D 14/64 (2006.01); **F23D 14/04** (2006.01); **F23D 14/46** (2006.01); **F23D 14/58** (2006.01)

CPC (source: EP)

F23D 14/04 (2013.01); **F23D 14/46** (2013.01); **F23D 14/58** (2013.01); **F23D 2210/00** (2013.01)

Cited by

AT405563B; EP0864813A1; AT405676B; US2018045404A1; US10591154B2; US10667813B2; US10458645B2; US10677457B2

Designated contracting state (EPC)

AT BE CH FR GB IT LI LU NL SE

DOCDB simple family (publication)

EP 0035153 A1 19810909; EP 0035153 B1 19840704; AT E8296 T1 19840715; DE 8005891 U1 19811001; JP S56137006 A 19811026

DOCDB simple family (application)

EP 81101062 A 19810216; AT 81101062 T 19810216; DE 8005891 U 19800301; JP 2977181 A 19810302