

Title (en)
BURNER FOR DRYING OR GAS-PURIFICATION PROCESSES

Publication
EP 0352342 B1 19920212 (DE)

Application
EP 88111991 A 19880726

Priority
EP 88111991 A 19880726

Abstract (en)
[origin: EP0352342A1] For drying or gas-purification processes, and consequently also for intermediate heating of gas or exhaust air, a burner (1) is used, in which the combustion gas is supplied, via a combustion gas pipe (4) and a combustion gas feed (5), in combustion gas distributors (3) which run in the longitudinal direction and in which combustion gas outlets (6, 7) are provided. The necessary combustion air comes via an air distributor (10), after passing a diffuser plate (17) and a pass-through plate (14) into the region of the combustion gas outlets (6, 7). Parallel to this, combustion air is guided, via additional combustion air channels (12) and producing a combustion air part flow (24, 25), past the combustion gas distributors (3, 3'). These part flows (24, 25), after circulating around the combustion gas distributors (3), are supplied to the flame, so that combustion in two stages takes place. On the combustion gas distributors (3) or on the angles (32) which form the combustion air flow channel (12), extension plates (20, 21) are arranged, which reliably prevent a return of the inert gas into the flame. Thus even air flows or gas flows with high contents of CO₂ and H₂O can be dried or heated safely. <IMAGE>

IPC 1-7
F23D 14/36; **F23D 14/76**

IPC 8 full level
F23D 14/36 (2006.01); **F23D 14/76** (2006.01)

CPC (source: EP US)
F23D 14/36 (2013.01 - EP US); **F23D 14/76** (2013.01 - EP US)

Cited by
AU2010226283B2; EP0829678A2; WO2010107559A3; US8147240B2; US9625149B2

Designated contracting state (EPC)
AT BE CH DE ES FR GB IT LI NL SE

DOCDB simple family (publication)
EP 0352342 A1 19900131; **EP 0352342 B1 19920212**; AT E72605 T1 19920215; DE 3868406 D1 19920326; ES 2030122 T3 19921016; US 5057008 A 19911015

DOCDB simple family (application)
EP 88111991 A 19880726; AT 88111991 T 19880726; DE 3868406 T 19880726; ES 88111991 T 19880726; US 65734291 A 19910215