

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 CO<sub>2</sub> and H<sub>2</sub>O 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

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