

Title (en)
Atmospheric gas burner

Title (de)
Atmosphärischer Gasbrenner

Title (fr)
Brûleur atmosphérique à gaz

Publication
EP 1130315 A3 20010919 (DE)

Application
EP 01102645 A 20010207

Priority
DE 10010762 A 20000304

Abstract (en)
[origin: EP1130315A2] The atmospheric gas burner has several parallel arranged burner components (10) with at least two mixture tubes and a burner plate with mixture outlet apertures. The mixture tubes are fed with a combustion gas - air mixture via gas nozzles and air inlet apertures. The surface of the mixture outlet apertures and the flow ratio of the combustion gas - air mixture in the mixture tubes (20) are so matched to each other that the heat load on the mixture outlet apertures of the burner plate (16) is less than or equal to 300 W/cm². The surface of the mixture outlet apertures corresponds to 3-5 times the cross-section of the two mixture tubes at the narrowest point. The mixture tubes in relation the wide side of the burner component have a widening diffuser section (25), which in relation to the narrow side of the burner component has a narrowing section (36) of the cross-section (20).

IPC 1-7
F23D 14/08; **F23D 14/46**

IPC 8 full level
F23D 14/04 (2006.01); **F23D 14/08** (2006.01); **F23D 14/46** (2006.01)

CPC (source: EP)
F23D 14/045 (2013.01); **F23D 14/08** (2013.01); **F23D 14/46** (2013.01)

Citation (search report)

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