

Title (en)
ATMOSPHERIC GAS BURNER

Publication
EP 0195360 A3 19870422 (DE)

Application
EP 86103318 A 19860312

Priority
DE 3509521 A 19850316

Abstract (en)
[origin: US4652236A] An atmospheric gas burner assembly comprises a burner tube defining a multiplicity of gas outlet ports and an element reducing the flame temperature and, hence, the emission of oxides of nitrogen disposed above the burner tube in the flame area. To optimize the reduction of NOx emission without affecting permitted CO values and to render the values of reduction in NOx emissions largely independent of the geometry of the surrounding combustion chamber so as to obtain reproducible emission reduction values, the reducing element is constituted by a multiplicity of fins confining the flames in shafts extending therebetween, the fins extending perpendicularly above the tube and being distributed along the tube.

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F23D 14/70; **F23D 14/10**

IPC 8 full level
F23D 14/10 (2006.01); **F23D 14/70** (2006.01)

CPC (source: EP US)
F23D 14/10 (2013.01 - EP US); **F23D 14/70** (2013.01 - EP US); **F23C 2203/20** (2013.01 - EP US)

Citation (search report)
• [XP] DE 8507804 U1 19850515
• [AP] US 4525141 A 19850625 - DEWERTH DOUGLAS W [US], et al
• [A] GB 1038216 A 19660810 - ALBERT HORACE GREAVES
• [A] GB 1231189 A 19710512
• [A] DE 1729902 A1 19710708 - APPLIC GAZ SA

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EP0599395A1; US5466148A; GB2302401B; US5993200A; EP0377233A1; US5057007A; GB2266585A; FR2690505A1; ES2088334A2

Designated contracting state (EPC)
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DOCDB simple family (application)
EP 86103318 A 19860312; AT 86103318 T 19860312; CA 504102 A 19860314; DE 3509521 A 19850316; US 83814486 A 19860310