

Title (en)
Gas burners for industrial furnaces

Title (de)
Gasbrenner für Industrieöfen

Title (fr)
Brûleurs à gaz pour fours industriels

Publication
EP 0674135 B1 19990623 (FR)

Application
EP 95400603 A 19950320

Priority
FR 9403633 A 19940324

Abstract (en)
[origin: EP0674135A1] The gas burner has a central gas supply channel (3), two concentric annular air supply channels (4,5), and a burner nose (10). A first series of orifices (14) for gas passage are located in a ring in communication with the central channel. A second series of orifices (15) for passage of air are located in a ring around the gas orifices and are in communication with one (4) of the annular channels. A third series of orifices (18) for air passage are located in a ring and communicate with the second (5) of the annular channels. The first series of orifices are inclined relative to the axial direction (X) of the burner nose and diverge towards the outside of the burner. This creates a divergent gas flow. The second series of orifices are in a helix so as to create a turbulent air flow which intersects the gas flow.

IPC 1-7
F23D 14/24; **F23C 9/00**

IPC 8 full level
F23C 9/00 (2006.01); **F23D 14/24** (2006.01)

CPC (source: EP)
F23C 9/00 (2013.01); **F23D 14/24** (2013.01)

Cited by
CN106765216A; EP0775868A1; FR2741702A1; CN102012024A; EP0823593A3; FR2930626A1; CN104136851A; CN105588118A; CN106287705A; EP3336428A1; JP2018522200A; WO2009138653A3; WO2013091634A1; WO03081129A1; WO2013125972A1; US6877980B2; US7322818B2; US6846175B2; US6986658B2; US6890172B2; US6866502B2; US6902390B2; US6890171B2; US7476099B2; US6893252B2; US6893251B2; US7004408B2; US7025587B2; US6869277B2; US6887068B2; WO03081136A1

Designated contracting state (EPC)
AT BE CH DE DK ES FR GB GR IE IT LI LU NL PT SE

DOCDB simple family (publication)
EP 0674135 A1 19950927; **EP 0674135 B1 19990623**; **EP 0674135 B2 20020821**; AT E181593 T1 19990715; DE 69510395 D1 19990729; DE 69510395 T2 20000113; DE 69510395 T3 20030417; ES 2132550 T3 19990816; ES 2132550 T5 20021216; FR 2717884 A1 19950929; FR 2717884 B1 19960607

DOCDB simple family (application)
EP 95400603 A 19950320; AT 95400603 T 19950320; DE 69510395 T 19950320; ES 95400603 T 19950320; FR 9403633 A 19940324