

Title (en)
Gas burners for industrial furnaces

Title (de)
Gasbrenner für Industrieöfen

Title (fr)
Brûleurs à gaz pour fours industriels

Publication
EP 0674135 B2 20020821 (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)

Citation (opposition)
Opponent :

- H. Lederer: "Neuartiger Drehofenbrenner mit nur einer Primärluftzuführung", extrait de la revue "Zement-Kalk-Gips International", 46ème année (1993), pages 779-783, Bauverlag GmbH, Wiesbaden
- F. Schneider, "Betriebserfahrungen mit dem KHD PYRO-JET Brenner", KHD Symposium '90, Volume 1, "Moderne Rollenpressen-Technik", pp. 97-99, KHD Humboldt Wedag AG, Köln, 1991

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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)
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