

Title (en)
Low NOx gas burner.

Title (de)
Gasbrenner mit niedrigem NOx-Gehalt.

Title (fr)
Brûleur à gaz à faible taux de NOx.

Publication
EP 0488481 A1 19920603 (EN)

Application
EP 91203140 A 19911129

Priority
NL 9002626 A 19901130

Abstract (en)
A burner comprising at least one burner tube (1) having a plurality of gas outlet orifices forming a burner bed. A plurality of plates (8) are extending upwards from the sides of the burner tube within the reach of the flames. These plates, which lower the flame temperature, and promote a staged combustion, are arranged parallel to and on opposite sides of the gas outlet orifices and are directly connected to the burner tube mainly through their lower ends. At least one of the upper ends of the plates is bent outwards, which leads to improved cooling, improved mixing of combustion gas and secondary air and hence to improved combustion. <IMAGE>

IPC 1-7
F23D 14/10; **F23D 14/70**

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

CPC (source: EP)
F23D 14/105 (2013.01); **F23D 14/70** (2013.01); **F23C 2203/20** (2013.01)

Citation (search report)

- [YD] EP 0377233 A1 19900711 - REMEHA FABRIEKEN BV [NL]
- [Y] DE 9010640 U1 19900920
- [Y] DE 8604053 U1 19860403
- [A] DE 8914576 U1 19900215
- [A] US 4767319 A 19880830 - VOSPER RALPH R [US]
- [A] AU 3802368 A 19701203
- [Y] PATENT ABSTRACTS OF JAPAN vol. 8, no. 112 (M-298)(1549) 25 May 1984 & JP-A-59 021 909 (TOKYO SHIBAURA DENKI K.K.) 4 February 1984

Cited by
JP2014009839A; US5645413A; WO9622491A1; US10281173B2; US11346580B2

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