

Title (en)
Low NOx radiant wall burner

Title (de)
Wandstrahlungsbrenner mit niedriger NOx Emission

Title (fr)
Brûleur mural à rayonnement et à faible émission de NOx

Publication
EP 1703204 A3 20060927 (EN)

Application
EP 06076085 A 20010312

Priority

- EP 04075208 A 20010312
- EP 01914795 A 20010312
- US 18880700 P 20000313
- US 20840400 P 20000531

Abstract (en)
[origin: EP1703204A2] A low NO x burner nozzle assembly (16) for a radiant wall burner includes an elongated hollow burner tube (30) and a discharge nozzle (18). The burner tube defines a conduit for supplying a mixture of fuel and air to a radiant combustion area. The discharge nozzle (18) is mounted on the tube (30) at the downstream end of the conduit and adapted for directing the mixture of fuel and air in an essentially radial direction. The discharge nozzle (18) includes a plurality of flow directing members arranged in an array to define therebetween a plurality of passageways which extend in a generally radial direction and having different respective flow areas. The discharge nozzle (18) also has an end cap (38) to prevent axial flow of the primary air/fuel mixture. The end cap (38) has an axially extending hole therein, and the nozzle assembly (16) includes a staged fuel burner nozzle arranged so as to protrude axially through such hole.

IPC 8 full level
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CPC (source: EP)
F23C 6/047 (2013.01); **F23D 14/06** (2013.01); **F23D 14/125** (2013.01); **F23D 14/48** (2013.01); **F23D 14/583** (2013.01); **F23M 5/025** (2013.01); **F23C 2900/06041** (2013.01); **F23D 2203/002** (2013.01)

Citation (search report)

- [X] US 5271729 A 19931221 - GENSLER WAYNE C [US], et al
- [X] US 5813846 A 19980929 - NEWBY JOHN N [US], et al
- [X] US 4257762 A 19810324 - ZINK JOHN S, et al
- [X] US 4402666 A 19830906 - GLOMM HORST M [DE], et al
- [X] DE 941679 C 19560419 - KOPPERS GMBH HEINRICH

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