

Title (en)

LOW NOX EMISSIONS BURNER ASSEMBLY AND METHOD FOR REDUCING THE NOX CONTENT OF FURNACE FLUE GAS

Title (de)

BRENNER FÜR NIEDRIGE NOX-EMISSIONEN UND VERFAHREN ZUR VERMINDERUNG DES NOX-GEHALTS VON FEUERRAUMABGASEN

Title (fr)

ENSEMBLE BRULEUR A EMISSIONS REDUITES DE NO x? ET PROCEDE PERMETTANT DE REDUIRE LA TENEUR EN NO x ?DES GAZ DE COMBUSTION

Publication

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Application

EP 01909251 A 20010215

Priority

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- US 78181701 A 20010212

Abstract (en)

[origin: WO0163176A1] A burner assembly (20) for a furnace or like device having a firebox defining a combustion zone (24). The burner assembly (20) includes a first annular tile (36) defining a centrally located path for a flow of combustion air and a second annular tile (38) concentric with the first annular tile. The second annular tile (38) has an internal diameter which is larger than an external diameter of said first annular tile (36), and the second annular tile (38) is positioned in surrounding relationship relative to at least a portion of said first annular tile (36) so that a ring-shaped conduit (80) is defined therebetween. The arrangement is such that combustion air flowing along said path induces a flow of flue gas through the conduit for entrainment by the flow of combustion air.

IPC 1-7

F23M 5/02; **F23D 14/24**; **F23C 9/08**

IPC 8 full level

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CPC (source: EP KR US)

F23C 9/08 (2013.01 - EP US); **F23D 14/24** (2013.01 - EP US); **F23M 5/02** (2013.01 - KR); **F23M 5/025** (2013.01 - EP US); **F23C 2202/40** (2013.01 - EP US); **F23C 2900/09002** (2013.01 - EP US)

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