Title (en)

Low NOx burner for liquid and gaseous fuels

Title (de)

Brenner mit niedrigem NOx-Gehalt für flüssige und gasförmige Brennstoffe

Title (fr)

Brûleur à faible taux de NOx pour combustibles liquides et gazeux

Publication

EP 0945678 A3 20000119 (EN)

Application

EP 99830162 A 19990323

Priority

IT FI980069 A 19980325

Abstract (en)

[origin: EP0945678A2] A low-NOx burner for liquid and gaseous fuels, of the type in which the combustion air is split into two streams. The primary air stream, fed through a plurality of windows (12), crosses at the outlet a series of oriented blades (15) which impart vorticity to it. The secondary air stream, fed through a series of windows (19), crosses a series of oriented blades (22) axially movable for varying the degree with respect to the inlet windows (19) . The windows (12, 19) for the primary and secondary air inlet have movable dampers (13, 20) for continuously adjusting the inlet section. This particular structure of the burner, particularly suitable for low/medium capacity installations, allows for a stage combustion typical of more complex geometry burners to be carried out, with a cost saving with equal capacity and pollutant emissions. <IMAGE>

IPC 1-7

F23C 7/00; F23D 17/00

IPC 8 full level

F23C 7/00 (2006.01); **F23D 17/00** (2006.01)

CPC (source: EP)

F23C 7/004 (2013.01); **F23C 7/008** (2013.01); **F23D 17/002** (2013.01)

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