

Title (en)
NITROGEN OXIDE-POOR BURNER

Title (de)
STICKOXIDARMER BRENNER

Title (fr)
BRULEUR PAUVRE EN OXYDE D'AZOTE

Publication
EP 0585441 B1 19970730 (DE)

Application
EP 93906562 A 19930319

Priority
• DE 4209221 A 19920321
• EP 9300666 W 19930319

Abstract (en)
[origin: WO9319325A1] A burner for generating hot gasses has a burner pipe (10) that comprises a support pipe (12) linked to a heating tube (14) with a nozzle (28) arranged in the support pipe which ejects a jet of fuel (36). A diaphragm (18) that separates inside the burner pipe a pre-chamber (16) from a combustion chamber (20) has a central bore (38) through which passes the jet of fuel. Recirculation openings (56) are arranged in the heating tube and allow the outer recirculation (54) of the cooled down flue gas. An element (62) suppresses the outer recirculation during a starting phase of the burner. In order to improve such a burner so that the outer recirculation can be reliably suppressed during the starting phase, the element for suppressing the outer recirculation is arranged within the burner pipe and can be controlled by controlling means guided within the support pipe.

IPC 1-7
F23D 11/40; **F23C 9/00**

IPC 8 full level
F23C 9/00 (2006.01); **F23D 11/40** (2006.01)

CPC (source: EP US)
F23C 9/006 (2013.01 - EP US); **F23D 11/40** (2013.01 - EP US); **F23C 2202/50** (2013.01 - EP US)

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AT BE CH DE FR IT LI

DOCDB simple family (publication)
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