

Title (en)

Method for the combustion of fuel by stepped fuel feed and burner for use with it.

Title (de)

Verbrennungsverfahren für Brennstoff mit gestufter Brennstoffzufuhr und Brenner dafür.

Title (fr)

Procédé de combustion pour combustible avec alimentation étagée du combustible et brûleur à cet effet.

Publication

EP 0430376 A2 19910605 (EN)

Application

EP 90203134 A 19901127

Priority

NL 8902963 A 19891201

Abstract (en)

To lower NO_x production in a stepped fuel feed combustion method, secondary fuel (15) is injected into a combustion chamber as a jet through an internal recirculation zone of the primary combustion zone (6) to a secondary combustion zone (8). The stoichiometry of the system up to and including the secondary combustion zone is preferably 0.70 to 0.90. A burner adapted for such a method is also disclosed, which has a duct for secondary fuel (15) concentrically within an inner annular duct (13) for primary fuel and an outer annular duct (14) for primary air. <IMAGE>

IPC 1-7

F23C 6/04; **F23C 9/00**

IPC 8 full level

F23C 99/00 (2006.01); **F23C 6/04** (2006.01); **F23C 9/00** (2006.01)

CPC (source: EP)

F23C 6/047 (2013.01); **F23C 9/006** (2013.01); **F23C 2201/20** (2013.01); **F23C 2201/30** (2013.01); **F23C 2202/40** (2013.01)

Cited by

US2005106520A1; US6461145B1; US2010227284A1; US8480394B2; EP1065461A1; FR2795808A1; DE19853162A1; DE19853162C2; EP1108951A1; EP0919768A1; US5954490A; US10006630B2; US6685463B2

Designated contracting state (EPC)

DE FR GB IT NL

DOCDB simple family (publication)

EP 0430376 A2 19910605; **EP 0430376 A3 19920115**; CA 2031228 A1 19910602; JP H03213901 A 19910919; NL 8902963 A 19910701

DOCDB simple family (application)

EP 90203134 A 19901127; CA 2031228 A 19901130; JP 33684190 A 19901130; NL 8902963 A 19891201