

Title (en)
BURNER FOR THE COMBUSTION OF DUST-LIKE FUELS

Publication
EP 0057747 B1 19851009 (DE)

Application
EP 81108054 A 19811008

Priority
DE 3104054 A 19810206

Abstract (en)
[origin: US4457695A] A burner (1,29) for the combustion of powdery fuels, in particular coal-dust, comprises a central duct (9,37) to supply a jet of core-air (13,41), a fuel channel (12,40) to supply the fuel and a casing channel (5,6; 31) to supply secondary air (7,8; 36). In order to make such a burner (1,29) also suitable for lesser power ranges, a widened range of regulation and less sensitive to a wide coal-dust band, the discharge means of the fuel channel (12,40) is designed as an annular nozzle (23,53) of which at least one of the two circumferential walls (19,47) is rotatable and driven, and the discharge means of the central duct (13,41) being so designed that the jet of core-air (13,41) is directed at least in part outwardly against the discharging fuel for the purpose of deflection into the region of the secondary air (7,8; 36).

IPC 1-7
F23D 1/00

IPC 8 full level
F23D 1/02 (2006.01); **F23D 1/00** (2006.01); **F23D 11/34** (2006.01)

CPC (source: EP US)
F23D 1/00 (2013.01 - EP US)

Designated contracting state (EPC)
BE DE FR GB IT NL

DOCDB simple family (publication)
EP 0057747 A2 19820818; EP 0057747 A3 19821110; EP 0057747 B1 19851009; DE 3104054 A1 19820812; DE 3172621 D1 19851114; JP S57150708 A 19820917; US 4457695 A 19840703

DOCDB simple family (application)
EP 81108054 A 19811008; DE 3104054 A 19810206; DE 3172621 T 19811008; JP 1649182 A 19820205; US 34615882 A 19820205