

Title (en)

DEVICE FOR THE DIRECT IGNITION OF POOR PULVERISED SOLID FUEL IN COLD COMBUSTION CHAMBERS

Publication

EP 0057895 A3 19830406 (FR)

Application

EP 82100715 A 19820202

Priority

FR 8102383 A 19810206

Abstract (en)

[origin: US4438707A] An apparatus allowing the use of low-grade solid fuel powders (coal, lignite, peat) and products derived therefrom during cold starting periods and for backing up combustion chamber operation at low load. The pilot burner (1) has an auxiliary and pilot igniter which burns gas produced by gasifying low-grade fuel in a gasification unit (6) and a main igniter which burns the low-grade fuel powder in a storage silo (5). The combustion air is heated in an air heater (10) by the gas produced by gasifying low-grade fuel in gasification unit (6). In particular, turbulence is set up in the combustion air sent to the outlet of the pilot igniter. Application to combustion apparatus including steam generators of thermal power stations.

IPC 1-7

F23D 1/00; **F23D 17/00**; **F23C 1/12**

IPC 8 full level

F23C 1/12 (2006.01); **F23D 1/00** (2006.01); **F23D 17/00** (2006.01)

CPC (source: EP US)

F23C 1/12 (2013.01 - EP US); **F23D 1/00** (2013.01 - EP US); **F23D 17/005** (2013.01 - EP US)

Citation (search report)

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Designated contracting state (EPC)

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EP 0057895 A2 19820818; **EP 0057895 A3 19830406**; BR 8200538 A 19821207; FR 2499681 A1 19820813; FR 2499681 B1 19830204; US 4438707 A 19840327; ZA 82718 B 19830126

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