

Title (en)

LOW LOAD COAL BUCKET AND METHOD OF OPERATING A PULVERISED COAL-FIRED FURNACE

Publication

EP 0017721 B2 19870520 (EN)

Application

EP 80100740 A 19800214

Priority

- US 2960579 A 19790413
- US 2960679 A 19790413

Abstract (en)

[origin: EP0017721A2] An improved fuel-air admission assembly incorporating a split coal bucket which permits a pulverized coal-fired furnace to be operated at low loads without the use of auxiliary fuel to provide stabilization. The split coal bucket comprises an upper and a lower coal nozzle pivotally mounted to the coal delivery pipe, the upper and lower coal nozzles being independently tiltable. When the furnace is operating at low loads, the primary air and pulverized coal stream discharging from the coal delivery pipe is split into a first and a second-air stream and independently directed into the furnace by tilting at least one of the nozzles away from the longitudinal axis of the coal delivery pipe, thereby establishing an ignition stabilizing pocket in the locally low pressure zone created between the spread apart coal-air streams.

IPC 1-7

F23D 1/00

IPC 8 full level

F23C 5/06 (2006.01); **F23C 7/02** (2006.01); **F23D 1/00** (2006.01)

CPC (source: EP)

F23C 5/06 (2013.01); **F23C 7/02** (2013.01); **F23D 1/00** (2013.01); **F23D 2201/101** (2013.01)

Cited by

EP0118714A3; CN112178633A; EP0029084A3; EP0650013A1; CN104776428A

Designated contracting state (EPC)

BE DE FR GB IT SE

DOCDB simple family (publication)

EP 0017721 A2 19801029; **EP 0017721 A3 19801210**; **EP 0017721 B1 19830720**; **EP 0017721 B2 19870520**; AU 530834 B2 19830728; AU 5738080 A 19801016; DE 3064180 D1 19830825; ES 490436 A0 19810216; ES 8103344 A1 19810216; IN 151051 B 19830212

DOCDB simple family (application)

EP 80100740 A 19800214; AU 5738080 A 19800411; DE 3064180 T 19800214; ES 490436 A 19800410; IN 406CA1979 A 19790421