

Title (en)

Low load coal bucket and method of operating a pulverised coal-fired furnace.

Title (de)

Kohlebrennerkopf für Niedrig-Last-Betrieb und Verfahren zum Betrieb eines mit Kohlenstaub beheizten Ofens.

Title (fr)

Tête de brûleur à charbon pour marche à charge réduite et méthode d'opération d'un four à charbon pulvérisé.

Publication

EP 0017721 A2 19801029 (EN)

Application

EP 80100740 A 19800214

Priority

- US 2960579 A 19790413
- US 2960679 A 19790413

Abstract (en)

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.

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F23D 1/00

IPC 8 full level

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CPC (source: EP)

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