

Title (en)

PROCESS AND FIRING EQUIPMENT FOR REDUCING THE GENERATION OF NOX IN COAL DUST FURNACES, PARTICULARLY SLAG TAP FURNACES

Publication

EP 0159492 A3 19870114 (DE)

Application

EP 85102314 A 19850301

Priority

DE 3410945 A 19840324

Abstract (en)

[origin: EP0159492A2] In a process for reducing the generation of NOx in coal dust furnaces, in which an additional fuel is supplied via nozzles (8) to the flue gas flow downstream of the main combustion zone and residual air is supplied via nozzles (14) downstream of the supply of the additional fuel, the additional fuel and the residual air, in order to achieve a better mixing of fuel and air into the flue gas flow, are supplied to the flue gas uniformly distributed over the cross-section of the flue gas flow. In a preferred embodiment of the firing equipment, it is envisaged that a fuel supply grid (7) with hollow rods (7a) extends transversely to the flue gas flow, which rods are provided on their upper side with fuel nozzles (8), and that, above the fuel supply grid (7), a residual air supply grid (13) with hollow rods (13a) extends, which rods are provided on their lateral surface with air nozzles (14), and that the ends of the hollow rods are connected to an additional fuel source (11) and a residual air source (17) respectively.

<IMAGE>

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F23C 6/047 (2013.01)

Citation (search report)

- DE 3021479 C2 19821007
- US 3948223 A 19760406 - BENSON ELLIOT WARREN
- US 4403941 A 19830913 - OKIURA KUNIO [JP], et al
- US 4144017 A 19790313 - BARSIN JOSEPH A, et al
- VGB KRAFTWERKSTECHNIK, Jahrgang 61, Heft 12, Dezember 1981, Essen U. STRAUSS "Entwicklungen auf dem Gebiet der Kohlenstaubforderungen" Seiten 971-975 * Seite 974, Spalte 1, Zeile 29 -Spalte 2, Zeile 3 ; Fig. 6 *

Cited by

DE10297306B4; EP0809067A1; FR2749066A1; DE102006004221A1; AU596414B2; AT399384B; US5131335A; AU631292B2; US7077069B2; WO8706677A1; WO9110097A1

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