

Title (en)

Improved automatic combustion control method for a rotary combustor.

Title (de)

Verfahren zur automatischen Verbrennungsregelung in einem Drehofen.

Title (fr)

Méthode de contrôle de combustion automatique pour un four rotatif.

Publication

EP 0329984 B1 19940914 (EN)

Application

EP 89101714 A 19890201

Priority

US 16045188 A 19880225

Abstract (en)

[origin: EP0329984A2] An improved method for automatically controlling rate of combustion in a rotary combustor having a rotating combustion barrel (11) by controlling a supply of combustion gas to three combustion zones (A, B and C) each of the zones (A, B, and C) have a windbox (36, 37 and 40) disposed directly beneath it, the windboxes (34, 37 and 40) are further divided into an overfire zone (36, 39 and 42) and an underfire zone (35, 38, and 41) forming six air zones which are adjusted by a controller (51) to regulate the supply of combustion gas to each of the six air zones (35, 36, 38, 39, 41, 42). The controller (51) responds to an oxygen sensor (25) disposed within a flue and a temperature (31) disposed within the combustion barrel (11) to maintain a of oxygen in the exhaust (21) within a predetermined range, and regulates the rate of rotation of the combustion barrel (11) to provide clean and efficient combustion.

IPC 1-7

F23N 5/00; **F23G 5/50**

IPC 8 full level

F23G 5/20 (2006.01); **F23G 5/50** (2006.01); **F23N 1/02** (2006.01); **F23N 5/00** (2006.01)

CPC (source: EP KR)

F23G 5/20 (2013.01 - KR); **F23G 5/50** (2013.01 - EP); **F23N 1/022** (2013.01 - EP); **F23N 5/006** (2013.01 - EP); **F23G 2207/101** (2013.01 - EP); **F23G 2207/103** (2013.01 - EP); **F23G 2207/30** (2013.01 - EP); **F23G 2900/55009** (2013.01 - EP); **F23N 2225/16** (2020.01 - EP); **F23N 2229/20** (2020.01 - EP); **F23N 2235/06** (2020.01 - EP); **F23N 2241/18** (2020.01 - EP)

Cited by

EP0427231A3; ES2051162A2

Designated contracting state (EPC)

AT BE CH DE ES FR GB IT LI NL

DOCDB simple family (publication)

EP 0329984 A2 19890830; **EP 0329984 A3 19900718**; **EP 0329984 B1 19940914**; AR 240200 A1 19900228; AT E111586 T1 19940915; AU 2868989 A 19890831; AU 607576 B2 19910307; BR 8900764 A 19891017; DE 68918131 D1 19941020; GR 890100107 A 19940331; IL 89137 A0 19890910; JP H01302018 A 19891206; KR 0128279 B1 19980409; KR 890013422 A 19890923; PT 89808 A 19891004; PT 89808 B 19940228

DOCDB simple family (application)

EP 89101714 A 19890201; AR 31320889 A 19890213; AT 89101714 T 19890201; AU 2868989 A 19890124; BR 8900764 A 19890221; DE 68918131 T 19890201; GR 890100107 A 19890222; IL 8913789 A 19890201; JP 4638889 A 19890227; KR 890002302 A 19890225; PT 8980889 A 19890223