

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 A2 19890830 (EN)

Application

EP 89101714 A 19890201

Priority

US 16045188 A 19880225

Abstract (en)

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

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IPC 8 full level

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