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Europäisches Patentamt  
European Patent Office  
Office européen des brevets

11 Publication number:

**0 329 984  
A3**

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**EUROPEAN PATENT APPLICATION**

21 Application number: **89101714.7**

51 Int. Cl.<sup>5</sup>: **F23N 5/00**

22 Date of filing: **01.02.89**

30 Priority: **25.02.88 US 160451**

43 Date of publication of application:  
**30.08.89 Bulletin 89/35**

84 Designated Contracting States:  
**AT BE CH DE ES FR GB IT LI NL**

88 Date of deferred publication of the search report:  
**18.07.90 Bulletin 90/29**

71 Applicant: **WESTINGHOUSE ELECTRIC CORPORATION**  
**Westinghouse Building Gateway Center**  
**Pittsburgh Pennsylvania 15222(US)**

72 Inventor: **Lee, Suh Yong**  
**1010 Harvard Road**  
**Monroeville, PA 15146(US)**

74 Representative: **Patentanwälte Dipl.-Ing. R. Holzer Dipl.-Ing. (FH) W. Gallo**  
**Ludwigstrasse 26**  
**D-8900 Augsburg(DE)**

54 **Improved automatic combustion control method for a rotary combustor.**

57 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.

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)
P, Y	WO-A-8806698 (WESTINGHOUSE ELECTRIC) * page 1, line 23 - page 2, line 30 *	1-3	F23N5/00 F23G5/50
A	* page 7, line 1 - page 10, line 4; figures * ---	4-7	
Y	US-A-4395958 (CAFFYN ET AL.) * column 5, line 64 - column 7, line 51 * * column 8, line 65 - column 9, line 35; figures *	1-3	
A	PATENT ABSTRACTS OF JAPAN vol. 11, no. 234 (M-611)(2681) 30 July 1987, & JP-A-62 46119 (NIPPON KOKAN) 28 February 1987, * the whole document *	1	
A	PATENT ABSTRACTS OF JAPAN vol. 11, no. 234 (M-611)(2681) 30 July 1987, & JP-A-62 46118 (NIPPON KOKAN) 28 February 1987, * the whole document *	1	
			TECHNICAL FIELDS SEARCHED (Int. Cl.4)
			F23N F23G
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 18 MAY 1990	Examiner KOOIJMAN F. G. M.
CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ..... & : member of the same patent family, corresponding document	
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document			