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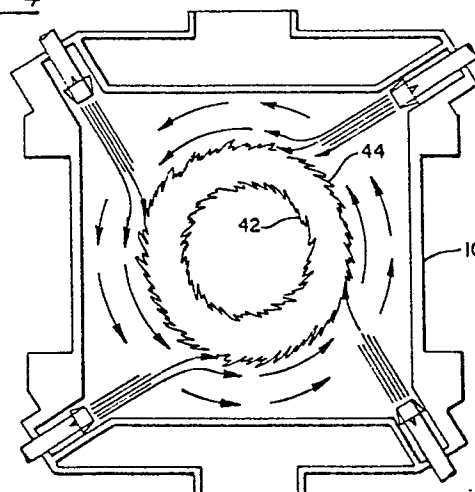
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64 **Low excess air tangential firing system.**

57 A furnace (10) in which pulverized coal is burned in suspension. The coal is introduced along with primary air, tangent to an imaginary circle (42). The auxiliary air is introduced tangent to an imaginary circle (44) directly above the primary air, in a direction of rotation opposite that of the primary air. The auxiliary air is directed tangent to a circle of greater diameter than that of the primary air. There are a plurality of alternating levels within the furnace where primary air (38), and then auxiliary air (40), is introduced.

**FIG. 4**





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)
A	GB-A- 697 840 (BABCOCK & WILCOX) * Page 1, line 51 - page 2, line 2; figures 1,2 *	1	F 23 C 5/32
A	US-A-4 501 204 (McCARTNEY) -----		
			TECHNICAL FIELDS SEARCHED (Int. Cl.4)
			F 23 C
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 01-09-1988	Examiner PESCHEL G.
<b>CATEGORY OF CITED DOCUMENTS</b> 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 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			