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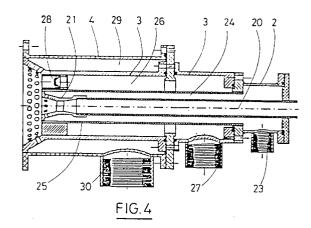
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(54) Automatically operated burner of coal dust or any other solid fuel.

A burner of coal dust or any other powdery solid fuel includes a powder fuel metering device (1) and an enbloc combustion head having horizontal axis which is supplied by said metering device and includes a plurality of tubular coaxial ducts, i.e. a central cylindrical duct (20) for supplying coal dust mixed with air which is provided with an atomizing nozzle (21), a concentric tubular duct (24) for the swirling air, a duct (26) for the air-gas mixture which is provided with a ring of auxiliary firing holes (28), and a duct (29) for the combustion air surrounding the whole assembly and provided at its end with a ring of holes (32) converging to the axis and axially misaligned so as to cause the air to swirl.





EUROPEAN SEARCH REPORT

Application Number

EP 91 83 0476

Category	Citation of document with indication of relevant passages		Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)	
Y	US-A-4 688 496 (SCHRETER) * column 2, line 43 - line 9 * column 3, line 27 - column * figures 1,5 *	50 *	1,9	F23D1/00 F23D17/00 F23K3/02	
Y	DE-A-3 206 074 (KÖRTING HANN * page 15, paragraph 1 * * page 19, paragraph 3 * * figures 1,9 *	NOVER)	1,9		
Υ	US-A-4 408 548 (SCHMALFELD) * column 5, line 15 - line 3 * column 8, line 59 - column * column 11, line 35 - line * figures 1,2,5,6 *	36 * n 9, line 18 *	1,16		
Y	DE-A-3 530 683 (PILLARD FEU * column 5, line 51 - column * figure *	•	1,16		
				TECHNICAL FIELDS SEARCHED (Int. Cl.5)	
				F23D F23K	
	The present search report has been d	rawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 24 AUGUST 1992	LEI	Examiner ITNER J.	
X : par Y : par do:	CATEGORY OF CITED DOCUMENTS ticularly relevant if taken alone ticularly relevant if combined with another ticularly relevant and the combined with another ticularly relevant if combined with another ticularly relevant if taken alone thological background		ument, but pub te the application of the reasons	lished on, or	