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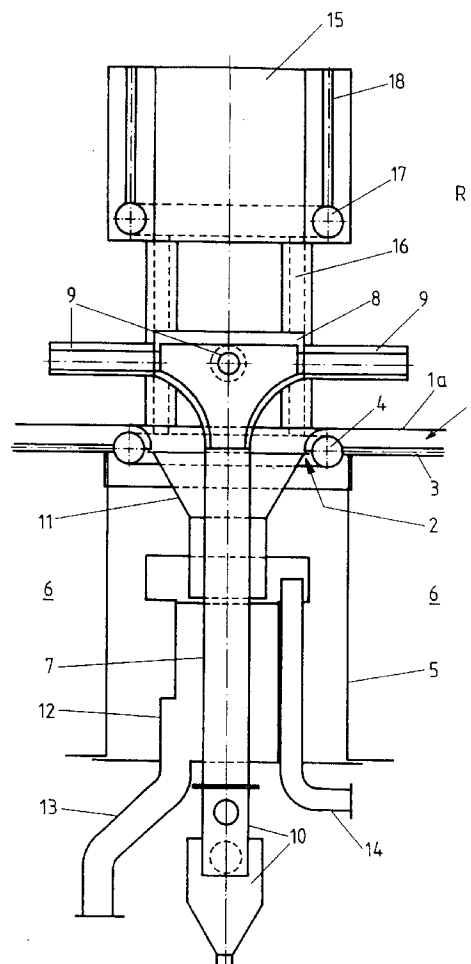
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(54) **Combustion unit.**

(57) The combustion unit provides a circulation process and comprises a reactor chamber (R), where the lower part is provided with a grate structure (1) for forming a so-called fluidized bed. Fuel is supplied to the upper side of the grate structure into the fluidized bed, and means are provided for removing the coarse material of the fluidized bed from the grate structure and for supplying air into the fluidized bed.

The combustion unit further comprises at least one particle separator which is provided with means for purifying the flue gases from solid material, the flue gases being generated in the fluidized bed and containing solid material. A return duct returns the solid material to the fluidized bed. The means (7, 8, 9) for supplying fuel to the grate structure and the means (11) for removing the coarse material in the fuel are formed into at least one group which penetrates the grate structure essentially at a same point.





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# EUROPEAN SEARCH REPORT

Application Number

EP 91 40 0212

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.5)
A	GB-A-2 070 960 (FLAMELESS FURNACES LIMITED) * page 1, line 126 - page 2, line 63 * * page 2, line 84 - page 3, line 34 * * figures 1,2 * ---	1	F23C11/02
A	GB-A-1 340 345 (COAL INDUSTRY (PATENTS) LIMITED) * page 2, line 57 - page 3, line 11 * * page 3, lines 26 - 53 * * figure 1 * ---	3, 4	
A	EP-A-0 090 641 (FOSTER WHEELER ENERGY CORPORATION) * page 9, line 4 - page 10, line 8 * * page 12, line 11 - page 13, line 14 * * figure 2 * ---	6, 7	
A	GB-A-2 128 573 (THE BRITISH PETROLEUM COMPANY) -----		
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			F23C F23G F23J
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 08 APRIL 1992	Examiner PHOA Y. E.
<p><b>CATEGORY OF CITED DOCUMENTS</b></p> <p>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</p> <p>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 ..... &amp; : member of the same patent family, corresponding document</p>			

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