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EUROPEAN PATENT APPLICATION

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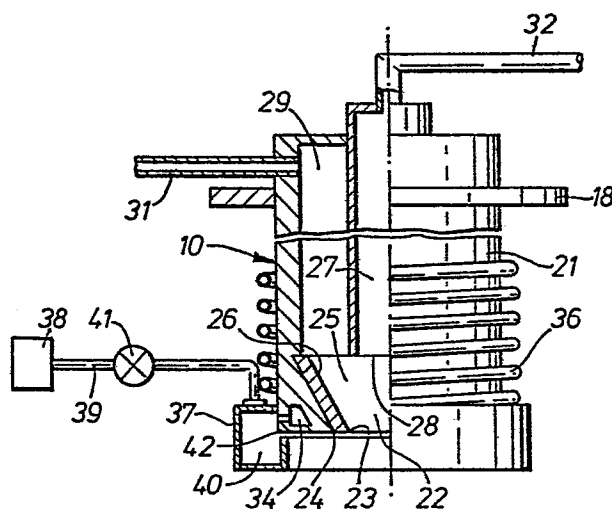
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⑤④ **Coal gasification burner and apparatus.**

⑤⑦ A burner (10) for the partial oxidation of a particulate fuel to form a gaseous product, comprises a burner body (21) having a mixing compartment (26) and a discharge end; and conduits (29, 27) for supplying a particulate fuel, such as coal slurry, and oxygen to the mixing compartment, the burner having an end face (24) with a discharge lip (23) in the end face defining a nozzle (22) for discharge of combustion mixture from the mixing compartment (26). An annular manifold (37) is disposed adjacent the end face and extends circumferentially of the discharge lip (23), and a conduit (39) supplies pressurised steam to the manifold. The manifold (37) has a constricted opening (42, 43) positioned to deliver a pressurised stream of steam from the manifold generally transversely of the burner end face (24) towards the discharge lip (23), whereby to form a dynamic fluid shield across the burner face to preclude slag or ash particles from contacting the face and building up any solid accumulation.





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. ³)
A	FR-A-1 137 874 (KOPPERS) *Pages 3-4; abstract*	1	C 10 J 3/48
A	DE-C- 968 064 (KOPPERS)		
A	FR-A-1 442 877 (URQUHART'S LTD.) *Page 4, right-hand column, paragraphs 1-2*	1	
A	EP-A-0 021 461 (SHELL)		
			TECHNICAL FIELDS SEARCHED (Int. Cl. ³)
			C 10 J F 23 D
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 29-08-1984	Examiner WENDLING J.P.
CATEGORY OF CITED DOCUMENTS			
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	