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BE DE FR GB IT NL SE

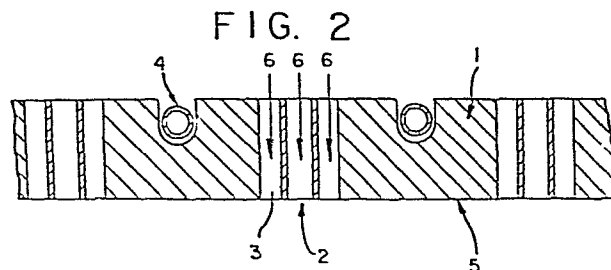
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⑤④ Improved metal burner.

⑤⑦ A metal burner-combustion chamber assembly for generating a continuous stream of high-temperature combustion gas of at least 1,000°C comprising (i) a metal burner (1) having nozzles (2,3) for feeding a fuel and an oxidizing gas, and a means (4) for conducting heat away from the metal burner by a fluid and (ii) a combustion chamber made of a refractory material one end of which is connected to the metal burner, wherein the inner surface of said metal burner facing the interior of the combustion chamber is coated with a layer (5) of a reflective metal having a reflectivity of at least 0.50, more preferably at least 0.80 and most preferably at least 0.90. Said coating reduces heat loss through the metal burner, contributes to a more efficient use of the fuel value and protects the burner material by lowering the temperature of the burner.





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)
Y	US-A-3 203 769 (SOGAWA ICHIKAWA-SHI) * Column 5, lines 22-38; column 6, lines 30-41; figures 5,6 *	1-5	F 23 M 5/08 F 23 D 15/00
Y	GB-A- 697 890 (BABCOCK AND WILCOX LTD.) * Page 2, lines 34-49; figure 1 *	1-5	
Y	DE-A-2 118 497 (ELBE KAMERA GmbH) * Page 2, 3rd paragraph *	1-5	
A	FR-A-2 036 457 (BRIGGS AND GILBERT) * Page 5, lines 15-39; page 9, lines 22-39; figures 1-3 *	1-4	
A	CHEMICAL ABSTRACTS, vol. 73, 1970, page 169, no. 58642j, Columbus, Ohio, US M.M. KOLTUN et al.: "Possibility of producing heat-reflecting coatings for silicon photocells" & GELIOTEKHNKA 1969, (6), 10-16		F 23 M F 23 D
A	US-A-3 901 647 (LLOYD A. RELYEA) * Column 3, lines 14-30; figure 4 *	1-4	
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The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 18-05-1984	Examiner JEST Y.G.A.
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			



DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int. Cl. ³)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	TECHNICAL FIELDS SEARCHED (Int. Cl. ³)
A	FR-A-2 067 648 (BERTIN & CIE.) * Page 1, lines 1-9 *	1	
A	DE-A-3 018 094 (SHIZUOKA SEIKI) * Claim 5; figure 2a *	1	
A	DE-C- 428 232 (BABCOCK AND WILCOX DAMPFKESSEL-WERKE)		
A	FR-A-2 052 866 (MITSUBISHI ELECTRIC CORP.)		
A	GB-A-2 009 391 (ANGLO-AMERICAN CORPORATION OF SOUTH-AFRICA) * Claims 1,5,6 *		
The present search report has been drawn up for all claims			
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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	