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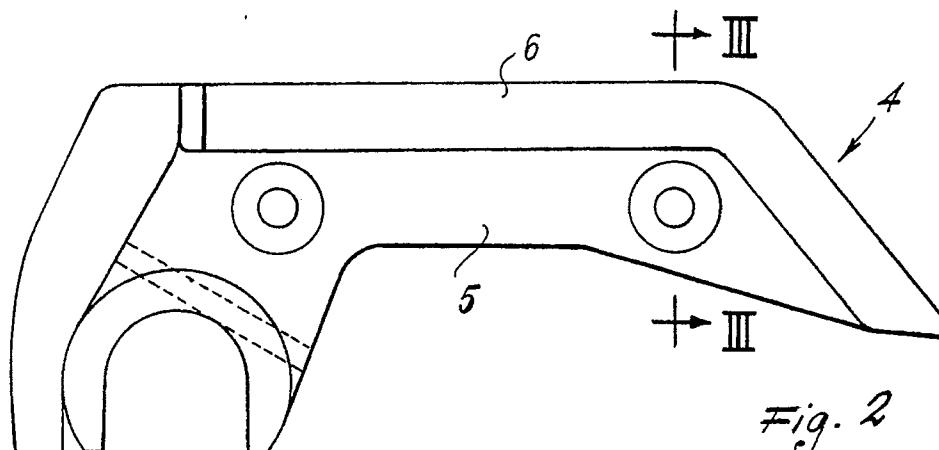
(54) **Grate bar with protection element of ceramic material or equivalent material of high heat and wear resistance.**

(57) The grate bar used particularly in the grates of incineration furnaces, which are normally formed with a bed consisting of rows of grate bars supported by two frames driven with reciprocating motion to feed the fuel along the grates.

The grate bars are subject to considerable erosion due to their rubbing against each other and against the overlying material to be burned, and are also obviously exposed to the flames so that they

are subject to rapid oxidation and wear.

To reduce said wear and oxidation phenomena, the grate bar according to the invention consists of a lower element (5) with a load-bearing function, constructed of steel or cast iron without particular heat or abrasion resistance characteristics, and an upper element (6) formed of ceramic material or another equivalent material.



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EUROPEAN SEARCH REPORT

Application Number

EP 90 10 1756

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)
X,A	EP-A-0 170 803 (KÜPAT AG) * abstract; figures 1-7 * * page 4, lines 7 - 18 @ page 7, lines 25 - 30 @ page 8, lines 4 - 11 * -- -- --	1,2	F 23 H 17/12
X	WO-A-8 806 256 (PAULI) * page 11, lines 1 - 23; figures 9-16 * -- -- --	1	
X	DE-C-3 236 8 (FRANKEN) * the whole document * -- -- --	1	
X	CH-A-5 797 48 (HITACHI SHIPBUILDING AND ENGINEERING CO LTD) * column 4, lines 28 - 47; claim 7; figure 7 * -- -- --	1	
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			F 23 H F 23 G
Place of search		Date of completion of search	Examiner
The Hague		12 March 91	SHALLOE D.M.
CATEGORY OF CITED DOCUMENTS			
X: particularly relevant if taken alone		E: earlier patent document, but published on, or after the filing date	
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A: technological background		L: document cited for other reasons	
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P: intermediate document		&: member of the same patent family, corresponding document	
T: theory or principle underlying the invention			