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- of inventorship (Rule 4.17(iv))

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(54) Title: HEAT EXCHANGE EQUIPMENT COMBUSTION PRODUCTS - WATER

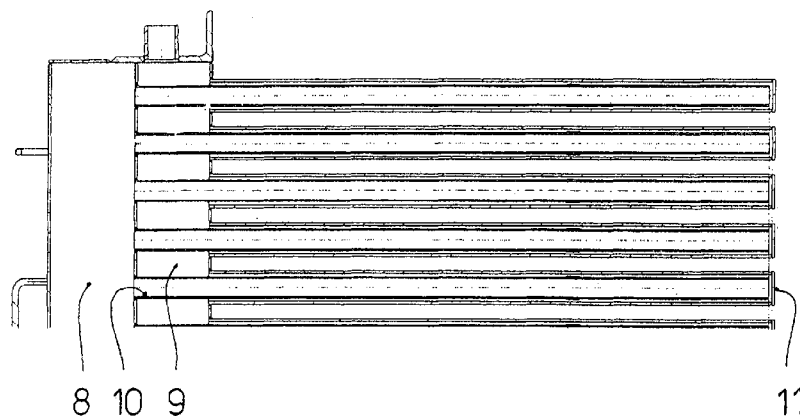


FIG. 2

(57) Abstract: Heat exchange equipment combustion products - water for smelting aggregate for flue gas waste heat recovery from the smelting aggregate consists of a vertical flue gas chamber (1) with a flue inlet (2) at the bottom of the flue chamber (1) and a flue gas outlet (3) to the chimney in the upper part of the flue chamber (1). There is a horizontally layered system of segments (4) with field pipes for the flow of heated water, whose distributions (5) are led to one outer wall of the flue chamber (1). System of segments (4) with field tubes is provided with an upper cool water inlet (6) and lower hot water outlet (7). On one side, the segments (4) are provided with a first fluid chamber (8) and the second fluid chamber (9) located behind the first one, while a set of internal tubes (10) extends from the first fluid chamber (8) with spaces between them, which in turn pass across the second fluid chamber (9) up to the end of the segments (4). Outer tubes (11) with larger diameter leading into the second fluid chamber 9 are put on the internal pipes (10), while the distal end of the outer tubes (11) is closed. The first fluid chambers (8) and second fluid chambers (9) of individual superimposed segments (4) are connected by interconnecting elements (12). The upper cool water inlet (6) is guided to the segments (4) in two parallel branches.





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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED
 Minimum documentation searched (classification system followed by classification symbols)
 F28D F28F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
 EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 2005 221181 A (T RAD CO LTD) 18 August 2005 (2005-08-18) figures	1-4
Y	US 4 526 112 A (WARNER DONALD F [US]) 2 July 1985 (1985-07-02) figures	1-4

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Date of the actual completion of the international search 28 November 2014	Date of mailing of the international search report 12/12/2014
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INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
JP 2005221181	A	18-08-2005	NONE
US 4526112	A	02-07-1985	NONE