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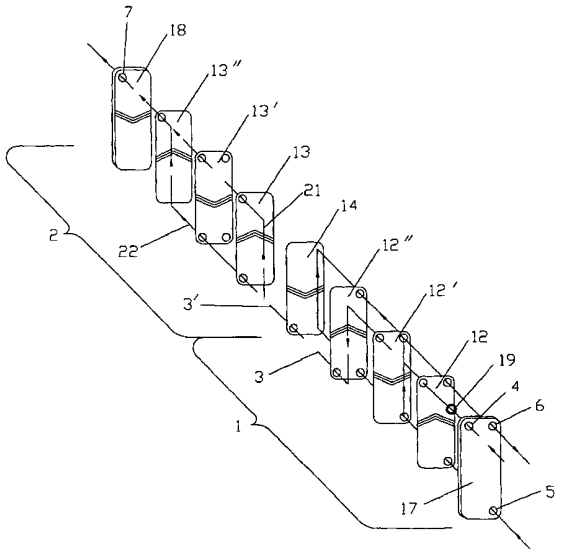
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(54) Title: WATER HEATER COMPRISING A PLATE HEAT EXCHANGER AND A STORAGE CONTAINER FOR HEATED WATER



(57) Abstract: A water heater adapted to avoid peak temperatures of delivered water comprises a plate heat exchanger (1) connected to a storage container (2) provided with interior reinforcing means (9-11. Fig. 1; 13-13''', Figs. 5-18) connecting opposite parts of the outer wall (2') of the container (2). Even provided with a thin storage container wall this makes it possible to use a box shaped water heater design without risk of deformations due to variations in the water pressure. The reinforcing means may consist of stacked interconnected plates (13-13''') - e.g. having the same form and size as plates (12-12'') used in a plate heat exchanger connected to the container (2).

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INTERNATIONAL SEARCH REPORT

International application No.
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A. CLASSIFICATION OF SUBJECT MATTER

IPC7: F24D 3/10, F24D 17/00, F24H 1/18
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)

IPC7: F24D, F24H

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

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	SE 508117 C2 (PERSTORP AB), 31 August 1998 (31.08.98), page 1, line 1 - line 3; page 2, line 6 - line 7; page 2, line 14 - line 18, figure 2, abstract --	1-2
X	DE 3202649 A3 (ZIMMER, JOHANN), 4 August 1983 (04.08.83), page 4, line 24 - line 27; page 10, line 31 - line 35, figure 3, abstract --	1-2
X	DE 19636143 C1 (STIEBEL ELTRON GMBH & CO KG), 9 October 1997 (09.10.97), figure 1, abstract --	1-2

[X] Further documents are listed in the continuation of Box C. [X] See patent family annex.

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	SE 410346 B (H. BROSENIUS), 8 October 1979 (08.10.79), page 8, line 17 - line 23, figure 4 ---	1-6
A	WO 9508085 A1 (NARDI, ROMANO), 23 March 1995 (23.03.95), figures 1,6, abstract --- --------	1-6

INTERNATIONAL SEARCH REPORT

Information on patent family members

01/10/01

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