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- (54) Title: VACUUM INSULATED HEAT STORAGE DEVICE

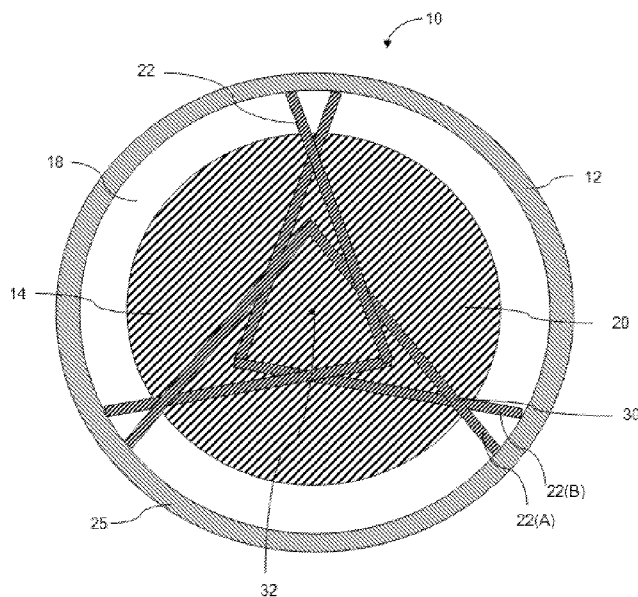


FIG. 2

(57) Abstract: Thermal energy storage system using a heat storage device (10) comprising: a housing (12); a container (14) for storing heat and transferring heat, wherein the container is inside the housing, wherein the container has a length and at least two opposing ends, including a first end (20) and a second end; an insulating space (18) between the housing and the container, wherein the insulating space is at least partially evacuated so that the heat conduction by gas molecules in the insulating space is reduced; a thermal energy storage material contained inside the container; and a sufficient number of support members (22) connecting the container to the housing so that translational movement of the container relative to the housing is substantially prevented; wherein the support members have one or more features that reduces the amount of heat loss from the container through the support members.

INTERNATIONAL SEARCH REPORT

International application No

PCT/US2012/035070

A. CLASSIFICATION OF SUBJECT MATTER

INV. F28D20/00

ADD.

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 F24D B65D

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.
X	US 5 114 071 A (SCHATZ OSKAR [DE]) 19 May 1992 (1992-05-19)	1-15,17, 19,20
Y	column 1, line 5 - column 2, line 2 column 2, line 41 - column 3, line 14 column 3, line 42 - column 5, line 20 claims; figures	16,18
X	DE 10 2008 042992 A1 (BSH BOSCH SIEMENS HAUSGERAETE [DE]) 22 April 2010 (2010-04-22) paragraphs [0027] - [0030]; figures	1,3,4,6, 15,19,20
Y	US 2009/211726 A1 (BANK DAVID H [US] ET AL) 27 August 2009 (2009-08-27)	16,18
A	abstract; figures paragraphs [0036] - [0045]	1
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Further documents are listed in the continuation of Box C.



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INTERNATIONAL SEARCH REPORT

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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.
E	EP 2 492 119 A2 (HANDTMANN SYSTEMTECHNIK GMBH & CO KG [DE]) 29 August 2012 (2012-08-29) paragraphs [0073] - [0101]; figures -----	1,3,4,6, 8,9,12, 14,15, 18-20

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

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