

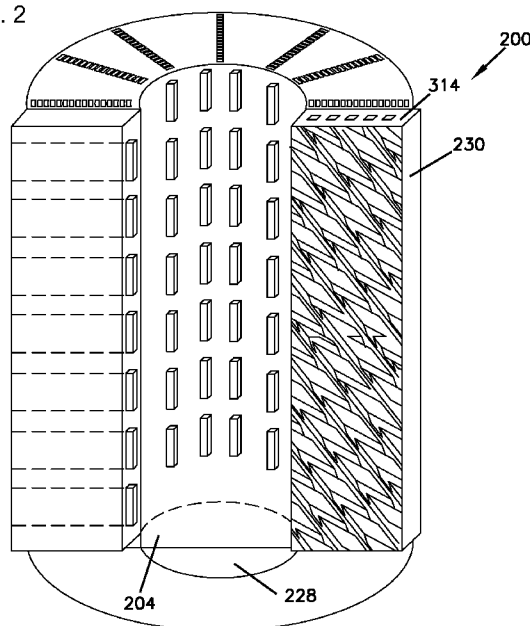


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[Continued on next page]

(54) **Title:** RADIAL-FLOW HEAT EXCHANGER WITH FOAM HEAT EXCHANGE FINS

FIG. 2



(57) **Abstract:** A radial flow plate-fin heat exchanger includes a plurality of heat exchange units connected together to form an annular shaped core. The core has a plurality of first fluid passageways that are circumferentially spaced from one another and that extend generally axially from a first end of the core to a second end. Each of the first fluid passageways is defined at least in part by a plurality of fins that include graphite foam. The core also has a plurality of second fluid passageways that are circumferentially spaced from one another and that extend generally radially from the central fluid passageway through an exterior wall of the core. The second fluid passageways are separated from the first fluid passageways so that a first fluid that flows through the first fluid passageways does not mix with a second that flows through the second fluid passageways.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

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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 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	US 2 792 200 A (HUGGINS HOMER D ET AL) 14 May 1957 (1957-05-14) column 3, line 26 - column 4, line 2; figures 1-8	1,8
Y	US 2 429 508 A (FRANK BELAIEFF JAMES) 21 October 1947 (1947-10-21) figure 1	1,8
Y	US 2010/181054 A1 (NAGURNY NICHOLAS J [US] ET AL) 22 July 2010 (2010-07-22) abstract; figures 1,3-6 paragraphs [0009], [0019], [0020]	1,8
Y	US 2009/308571 A1 (THOMPSON BRIAN E [CA] ET AL) 17 December 2009 (2009-12-17) abstract; figures 1,4-7	1,8

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

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			WO 2009137653 A2	12-11-2009
