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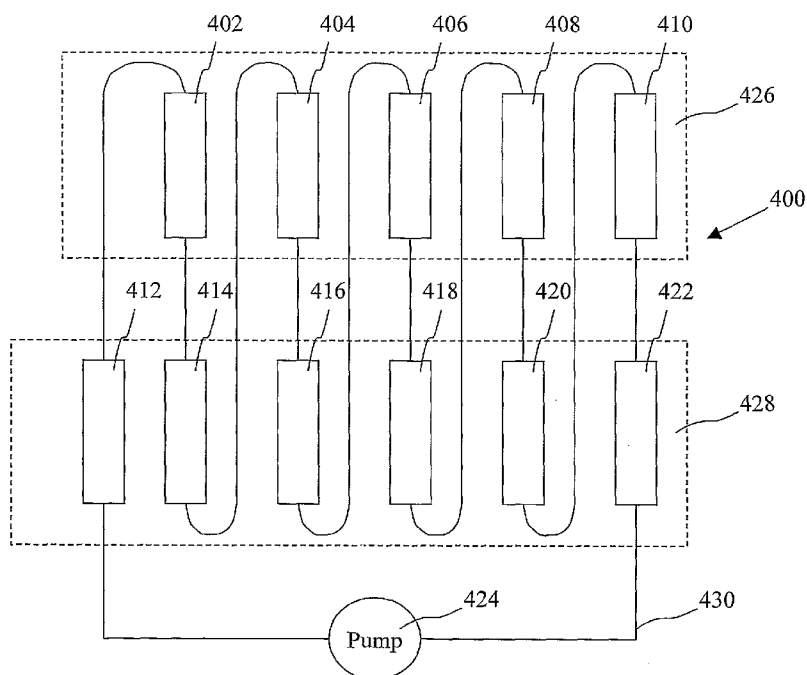
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(54) Title: ELECTROKINETIC PUMP DRIVEN HEAT TRANSFER SYSTEM



(57) Abstract: A heat transfer system (100) comprising a primary heat exchanger (102) for receiving heat from a heat source (104); a secondary heat exchanger (106) for exhausting heat to a heat sink (108); a conduit (110) connecting the primary heat exchanger (102) and the secondary heat exchanger (106); and an electrokinetic pump (112) for pumping a heat exchange fluid between the primary heat exchanger (102) and the secondary heat exchanger 106 through the conduit (110).

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A. CLASSIFICATION OF SUBJECT MATTER

IPC: F28D 15/00(2006.01)

USPC: 165/267,80.4,80.5,104.11,104.12,104.25;417/48

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)

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

NONE

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

DERWENT, JPO, EPO search terms: electrokinetic, electroosmotic, pump

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	US 2003/0062149 A (GOODSON et al) 03 April 2003 (03.04.2003). See entire document.	1-3, 8-10, 12-14, 16-18, 20 and 21
Y	US 6,409,698 B1 (ROBINSON et al) 25 June 2002 (25.06.2002), See col. 6, lines 35-41 and col. 9, lines 19-25.	4, 11, 15, 19 and 22 4, 15 and 22
Y	US 3,923,426 A (THEEUWES) 02 December 1975 (02.12.1975), See elements 92 and 93, in particular.	11, 19
Y	US 4,886,514 A (MAGET) 12 December 1989 (12.12.1989), See element 13, in particular.	11, 19
Y	JP, 07-269971 A (KAMIMURA et al) 20 October 1995 (20.10.1995), See figures 1 and 3, in particular.	1, 5-7
Y	US 2002/0194909 A1 (HASSELBRINK, Jr. et al) 26 December 2002 (26.12.2002), See figure 11, in particular.	1, 5-7

Further documents are listed in the continuation of Box C.

See patent family annex.

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