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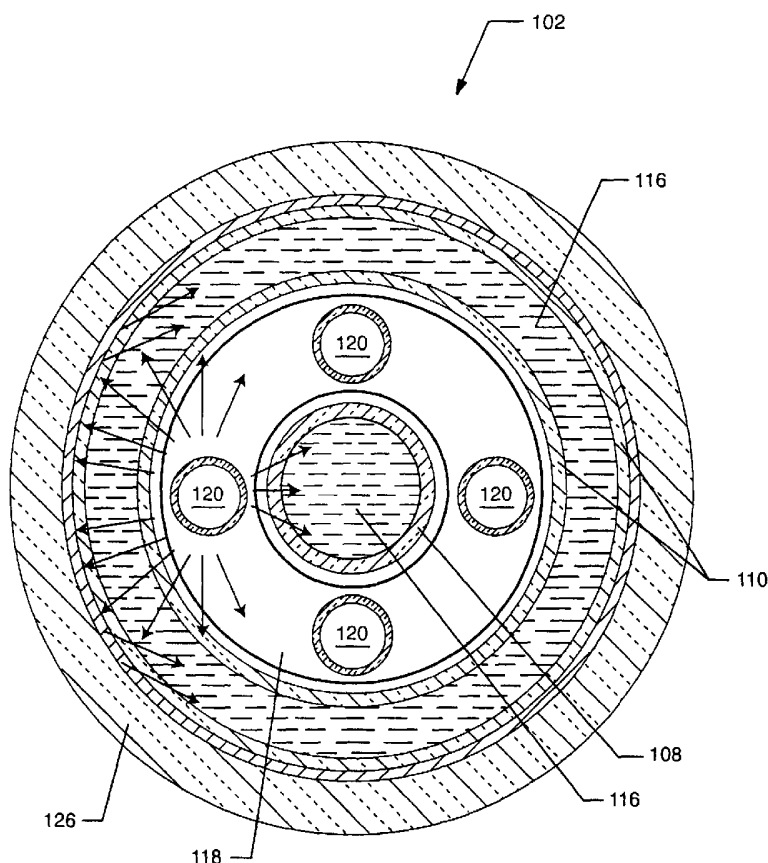
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(54) Title: IN-LINE FLUID HEATING SYSTEM



(57) Abstract: An in-line fluid heating system including a lamp module (118) having a plurality of heating lamps (120). A fluid vessel is configured to slidably accept the lamp module therein. The fluid vessel includes a fluid inlet and outlet, a central tube (108) and an outer envelope (110) in fluid communication with and coaxial to the central tube and outer envelope such that the fluid is heated as it passes through the central tube and outer envelope. A reflector substantially surrounds the fluid vessel. Insulation (126) substantially surrounds the reflector (124) and the fluid vessel to prevent heat loss.



WO 03/014632 A3



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INTERNATIONAL SEARCH REPORT

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 US CL : 392/483
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B. FIELDS SEARCHED
 Minimum documentation searched (classification system followed by classification symbols)
 U.S. : 392/483, 482, 480, 393, 391

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)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5,559,924 A (KADOTANI et al) 24 September 1996, entire document.	1-24
Y	US 6,157,778 A (KADOTANI) 05 December 2000, entire document.	1-24
Y	US 5,271,086 A (KAMIYAMA et al) 14 December 1993, entire document.	1-24
A	US 1,767,122 A (DEAN) 24 June 1930, entire document.	1-24

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

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