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(54) Title: HEAT TRANSFER SYSTEM

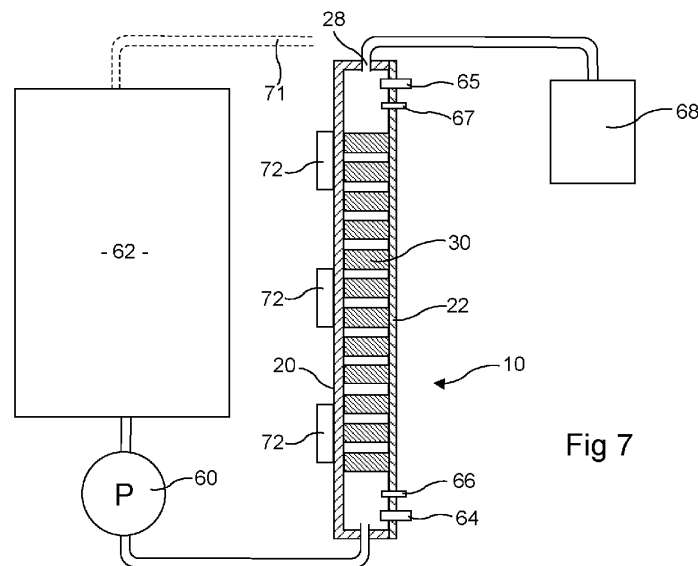


Fig 7

(57) Abstract: A heat transfer device, such as a heat exchanger, has dimensions and flow speed such that Reynolds number for the flow is in a range from 1 to 1000. The device uses a working fluid which is in a state of elastic turbulence. This enhances transfer of heat to or from the working fluid. In some embodiments the fluid is an emulsion with a disperse phase which changes between liquid and solid so that its latent heat of fusion contributes to the amount of heat carried by the working fluid.

[Continued on next page]

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