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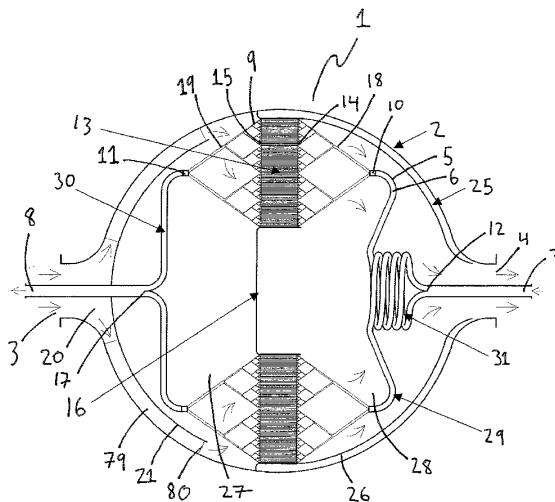


FIG. 1

(57) **Abstract:** A shell and tube type heat exchanger comprising a shell and a tube arrangement within the shell. The tube arrangement comprises a flow tube. The flow tube furcates at a plurality of nodes along its length. The shell and tube type heat exchanger further comprises a tube matrix fluidly coupled to the flow tube.

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