

Title (en)
PERSONAL TEMPERATURE CONTROL SYSTEM

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Application
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Priority
US 8200134 W 19820201

Abstract (en)
[origin: WO8302562A1] A personal temperature control system for sustaining normal body temperatures in environments with extreme temperatures including a first heat exchanger (10) adapted to be worn as a garment and a second heat exchanger (18) adapted to interact with a temperature source, the first and second heat exchangers being interconnected through a pump (26) and reservoir (28) unit. The first heat exchanger together with the pump and reservoir are portable and in one embodiment the second heat exchanger is constructed to be fully portable. Specific devices including automatic quick release couplings (24) interconnect the first heat exchanger to the second heat exchanger through the pump and reservoir. The fabrication of the first heat exchanger in helmet and vest portions is disclosed together with a control display unit housing (30) the pump and reservoir and including an adjustable flow valve (150) connected in parallel with the second heat exchanger. A preferred embodiment of the adjustable flow valve provides nonlinear change in rate of flow upon adjustment.

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