

Title (en)
Thermoelectrically enhanced CO2 cycle

Title (de)
Thermoelektrisch verbesserter CO2 Kreislauf

Title (fr)
Cycle de CO2 amélioré par des moyens thermoélectriques

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Application
EP 04257654 A 20041209

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Abstract (en)
Figure 1c illustrates a vapour compression cycle according to the present invention wherein a thermoelectric device is used to sub-cool the refrigerant exiting the gas cooler from point 3a to point 3, thus increasing the cooling effect of the evaporator/heat exchanger between points 4 and 1 without the detrimental increase in the temperature of the refrigerant at the suction inlet of the compressor that occurs in known systems through the use of an internal heat exchanger. The thermoelectric device may be provided at the outlet of the gas cooler or may be incorporated into the gas cooler.

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Citation (search report)

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