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(54) Title: CAPACITY AND PRESSURE CONTROL IN A TRANSPORT REFRIGERATION SYSTEM

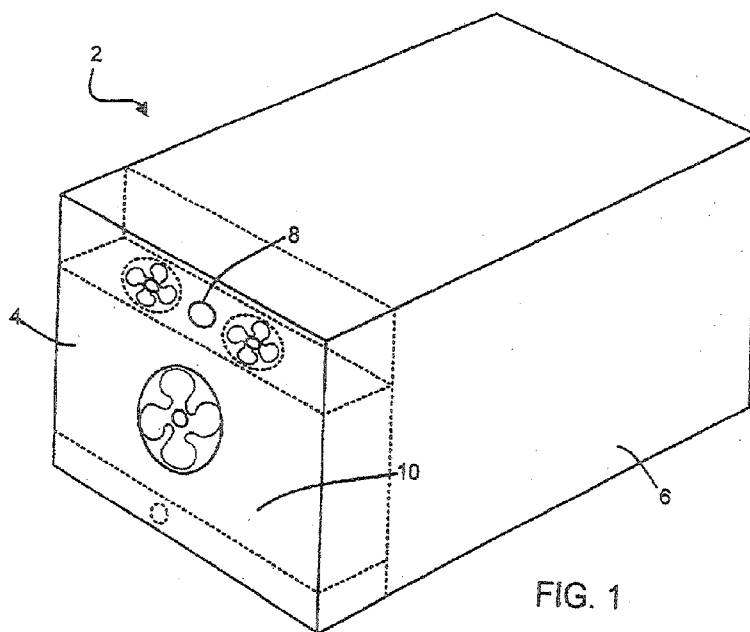


FIG. 1

(57) Abstract: Embodiments of apparatus, transport refrigeration units, and methods for operating the same can control cooling capacity for a refrigerant vapor compression system. Embodiments can provide use discharge pressure control for modulating cooling capacity for a refrigerant vapor compression system. In one embodiment, discharge pressure control can reduce the cooling capacity without increasing the compressor pressure ratio or discharge temperature. In one embodiment, discharge pressure control can reduce the cooling capacity independently of system superheat. In one embodiment, discharge pressure control can control a compressor discharge temperature; for example, to remain below a threshold temperature.

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