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(54) Title: ACTIVE/PASSIVE COOLING SYSTEM WITH PUMPED REFRIGERANT

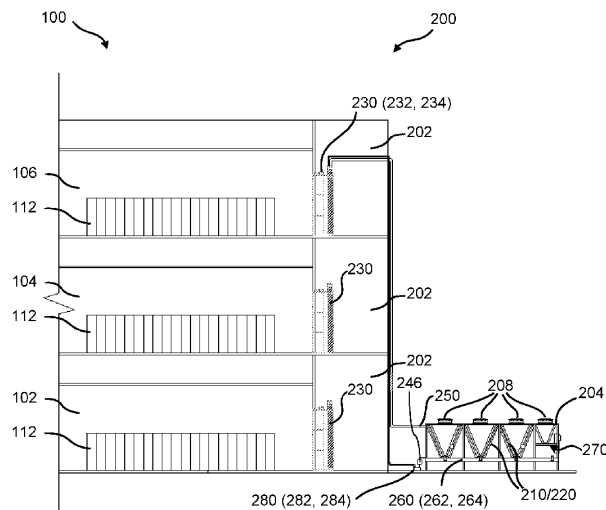


Fig. 1

(57) Abstract: A cooling system including an evaporator, a passive condenser, a heat exchanger, and a pump. The passive condenser is arranged in parallel with the heat exchanger relative to the fluid flow of a primary cooling medium. When a secondary cooling medium is provided to the heat exchanger, at least some of a primary cooling medium in the gas phase switches from being received by the passive condenser to the heat exchanger without operating any valves and supplies the primary cooling medium in the liquid phase to the evaporator. When the secondary cooling medium is not provided to the heat exchanger, the heat exchanger does not supply the primary cooling medium in the liquid phase to the evaporator. The pump is located in a liquid line fluidly connecting the evaporator to the passive condenser and the heat exchanger and pumps the primary cooling medium in the liquid phase to the evaporator.

[Continued on next page]

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