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(54) Title of the Invention: Heat pump system
Abstract Title: Heat pump system

(57) A heat pump system 10 for raising a temperature of a load to at least a desired temperature. A first working fluid circuit 12 is arranged to receive heat energy from a heat energy source, the first working fluid circuit arranged to directly transfer some of its heat energy to the load to raise the temperature of the load to at least an intermediate temperature, if the temperature of the load is less than the intermediate temperature. A second working fluid circuit 14 is arranged to directly receive some of the heat energy from the first working fluid circuit, the second working fluid circuit arranged to directly transfer some of its heat energy to the load to raise the temperature of the load from the intermediate temperature to at least the desired temperature, if the temperature of the load is less than the desired temperature.

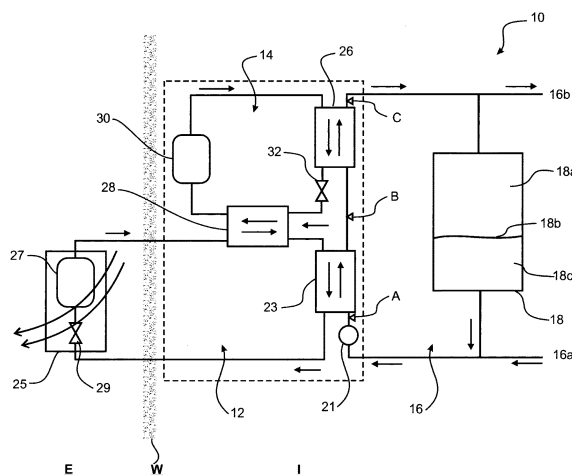


FIGURE 1