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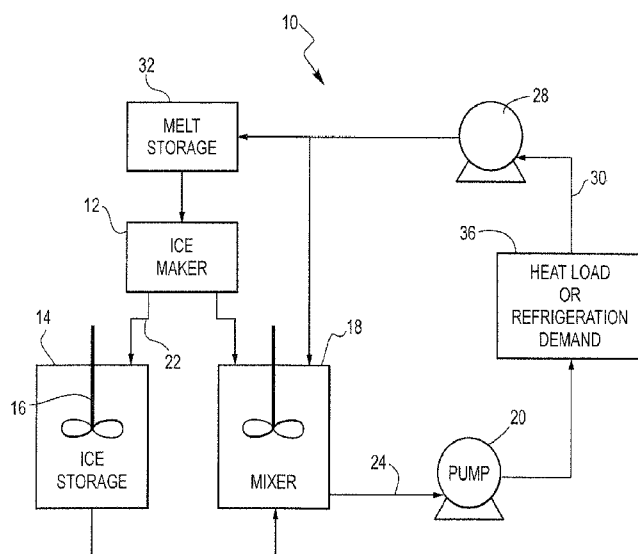
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(54) Title: CLOSED LOOP ICE SLURRY REFRIGERATION SYSTEM

Fig. 1

(57) Abstract: A closed loop refrigeration system comprises an ice slurry mixture which comprises ice, water, and a freezing point depressant. The system also comprises a first storage device for storing the ice slurry mixture, and an agitator disposed in the first storage device. The agitator agitates the ice slurry mixture in at least an intermittent manner. The system further comprises a first conduit connecting the first storage device and a heat load, and a first pump disposed on the first conduit for pumping the ice slurry mixture through the first conduit from the first storage device to the heat load. At least some of the ice melts in the heat load. The system also comprises a second conduit connecting the heat load and a second storage device. The second storage device is connected to the first storage device. The system further comprises a second pump disposed on the second conduit for pumping the ice slurry mixture containing the melted ice through the second conduit from the heat load to the second storage device.