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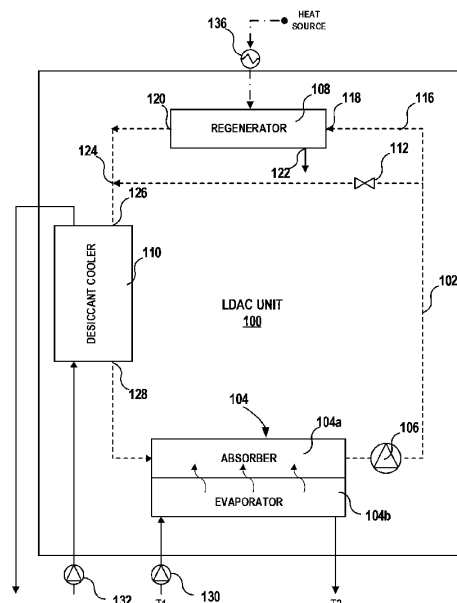


FIG. 1

(57) Abstract: A liquid desiccant absorption chiller includes an absorber-evaporator and a regenerator. The absorber-evaporator includes a cooling liquid channel through which a cooling liquid is configured to flow, a liquid desiccant channel through which a liquid desiccant is configured to flow, an air-gap cell disposed between the cooling liquid channel and the liquid desiccant channel, a first permeable membrane disposed between the liquid desiccant channel and the air-gap cell, and a second permeable membrane disposed between the second liquid channel and the air-gap cell.

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