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(54) Title: DESALINATION ASSEMBLY

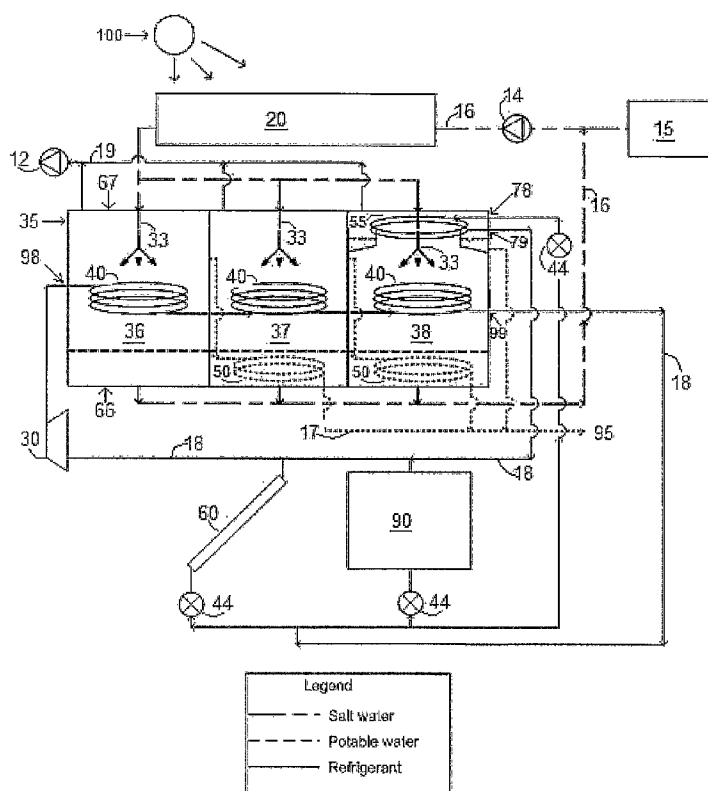


FIG.1

(57) Abstract: A desalination assembly for producing potable water from seawater comprises a seawater line adapted to transfer seawater, a refrigerant line containing refrigerant, and a desalination chamber connected to the seawater line and to the refrigerant line, wherein the refrigerant line is in thermal communication with the seawater line. A condenser is positioned in the chamber and is adapted to transfer heat from the refrigerant line to seawater and evaporate seawater to produce water vapor, and an appliance which produces waste heat is operatively positioned in the refrigerant line. The refrigerant line is adapted to receive waste heat generated by the appliance.



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