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(54) Title: DEVICE AND METHOD FOR DISTILLING WATER

(57) Abstract: A water distiller comprises a sub-atmospheric boiler having a non-recirculating brine section, an input, a brine output and a vapor output, the input for water to be distilled, the brine output for brine, and the vapor output for water vapor, a compressor connected to the vapor output for heating the water vapor, and a heated vapor line connected to an output of the compressor, the heated vapor line heating the brine section. Also provided is a method for distilling water comprising the steps of entering water to be distilled into a sub-atmospheric boiler, a part of the water to be distilled boiling immediately and a part entering a brine section of the boiler; raising a temperature of water vapor exiting the boiler so as to form a heated water vapor; passing the heated water vapor by the brine section so as to heat the brine section; and removing brine from the brine section when the brine reaches a predetermined salinity.

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