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***With international search report.***

A desalination apparatus capable of obtaining fresh water stably at low cost by utilizing low-temperature waste, wherein the desalination apparatus including a heat exchanger (92) cooperating with an evaporation can (60) so as to subject a low-temperature waste heat (11) and raw water (62) in the evaporation can (60) to heat exchange and generate water vapor (63) in the evaporation can (60); a condenser (98) cooperating with a raw water tank (72) so as to receive the water vapor (63) from the evaporation can (60), cool the water vapor (63) by subjecting the water vapor (63) and raw water (71) in the raw water tank (72) to heat exchange and obtain distilled water (76); a distilled water tank for storing the distilled water (76); vacuum means for evacuating the evaporation can (60) and depressurizing the inside thereof so as to promote generation of water vapor (63) in the evaporation can (60); and raw water supply means for supplying raw water to the evaporation can.