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(54) Title: WATER EVAPORATION APPARATUS**(57) Abstract**

A water evaporation apparatus (10) for evaporating water (12) contained in a drum (14) includes a thermally insulated float assembly (16) for floating in the water (12). The float assembly defines a space (18) which is in fluid communication with the water (12) via a hole (22) formed through a bottom wall (24) of the float assembly (16). The float assembly (16) also includes an exhaust stack (26) which extends from the space (18) and has a discharge end (28) located outside the drum (14). A volume of water (20) flows into space (18) through the hole (22). A heater (30) is located within the space (18) and below the level of the water (20) for causing evaporation thereof. This generates steam and other vapours which rise through the stack (26) and are vented through discharge end (28). As the water (20) is evaporated it is replenished by water (12) from the drum (14) flowing through the hole (22) into the space (18). In this way, the water (12) within the drum (14) is progressively evaporated. When the water level within the drum (14) drops to a lowest level (L) a switch (68) is operated by a stop (70) mounted on the stack (26) to cover power to the heater (30).

