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(54) Title: HEAT EXCHANGE UNIT FOR SELF-COOLING BEVERAGE CONTAINERS**(57) Abstract**

A portable heat exchange unit (10) for cooling a medium including a vessel (60) adapted to contain a discrete quantity of a compressed or liquified gas wherein the vessel (60) includes a wall (90) arranged to be placed in contact with the medium to be cooled, a valve for operatively controlling the release of the gas from the vessel (60), a panel (92) positioned adjacent and inside the wall (90) of the vessel (60) for operatively directing the gas into heat exchange contact with the wall (90) of the vessel (60) and arranged to release gas from the top of the panel (92), and a means for exhausting the gas from the vessel (60). The panel (92) has ridges (192) thereon and engages the wall (90) so as to form a plurality of channels (98) between the ridges (192) and the wall (90).

