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ABSTRACT

A diaphragm 24 for attaching to a free edge of a perimetrical wall 18 of a pumping chamber 16 of a chassis 14 of a liquid containment and dispensing device 10, said diaphragm being preshaped to have a raised central portion 24a surrounded by a planar edge portion 24b. The raised central portion of the diaphragm permits the diaphragm, when secured to a free edge of the perimetrical wall, to flex with respect to the pumping chamber without leading to the formation of wrinkles in the planar edge portion. The diaphragm has an innermost layer 24c of LDPE, and the planar edge portion thereof is secured by heat staking to the free edge of the perimetrical wall of the chassis, which is formed by molding from a plastic material. An aluminum crimp ring 26 is provided to tightly retain the planar edge portion of the diaphragm against the free edge of the perimetrical wall of the chassis. The dispensing device has a liquid containing pouch 19 that is formed by an opposed pair of generally cup-shaped members 21, 23 each of which has a generally planar free edge 21a, 23a, respectively, that is heat-staked to a perimetrical frame 17, which is formed integrally with the chassis and depends therefrom. The raised central portion of each of the cup-shaped members permits attachment of such cup-shaped members to the perimetrical frame without the formation of wrinkles in a perimetrical edge of each of the cup-shaped members.

This Sheet Has Been Replaced

