Title (en)
CLOSURE DEVICE FOR FLEXIBLE LIQUID CONTAINERS

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Application
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Abstract (en)
[origin: US5115949A] The invention relates to a one-piece plastic cap, the lower part of which, which can be attached to a container opening, is provided with a top wall in which a passage opening is provided, the lower side of which is joined via a dip tube to the container. The top wall is, furthermore, provided with a hole diaphragm which, in the closed position of the upper part, is closed by a sealing spike protruding from its lower side and, in the open position of the upper part, interacts with a valve spike projecting from its lower side which is dimensioned shorter relative to the sealing spike so that, when pressure is exerted on the container, the ventilation valve is closed. A pre-tensioning device of the upper part interacts with the lower part so that, in the closed position of the upper part, a discharge channel in the upper part is pressed with elastic pre-tension sealingly against the top wall and, in the open position of the upper part, sealingly against the edge of the passage opening. By the compression of the liquid container, the cap makes it possible for liquid to be dispensed and, after it has been released, for air to be taken in without the discharge channel of the cap being completely emptied. The cap is secure during transport when closed.

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