

Title (en)  
DISPENSER FOR LIQUIDS OR VISCOUS PRODUCTS

Publication  
**EP 0088236 B2 19901227 (DE)**

Application  
**EP 83101029 A 19830203**

Priority  
US 35568282 A 19820308

Abstract (en)  
[origin: US4485943A] A dispenser for a liquid or pasty product comprises a container containing the respective product and having its upper end closed by a partition having at least one opening therethrough. The partition is covered by a head piece provided with an applicator and forms, together with the partition, a pump chamber, the volume of which is adapted to be varied by actuation of exterior means. The pump chamber is separated from the container by a first check valve adapted to open only towards the pump chamber and is separated from the outlet of the applicator by a second check valve adapted to open only towards said outlet. The first check valve takes the form of an insert fabricated by punching, or stamping or molding of flexible resilient material and comprises an inner member, an outer member spaced from but concentric with the inner member, and at least one (but preferably two) arcuately shaped resilient element concentrically located in the space between the members and integrally connected at its opposite ends to the inner and outer members. In one embodiment the inner member serves as a movable closure member sealingly covering the opening in the partition in its closed position and the outer member serves as a retainer member engageable with a portion of said partition to properly position the insert relative to the opening. In another embodiment the outer member serves as the closure member and cooperates with a plurality of openings and the inner member takes the form of a sleeve which receives a pin provided on the partition centrally of the openings.

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IPC 8 full level  
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Cited by  
FR2729436A1; DE3339180A1; EP0143183A3; DE3530486A1; US4728008A; WO9622163A1; EP2923964A1

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