

Title (en)

Assembly for dispensing at least one liquid product or cream.

Title (de)

Abgabevorrichtung für wenigstens ein flüssiges oder cremeartiges Produkt.

Title (fr)

Ensemble de distribution d'au moins un produit liquide ou sous forme de crème.

Publication

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Application

EP 91400917 A 19910404

Priority

FR 9004829 A 19900413

Abstract (en)

[origin: US5161718A] Assembly (1) for dispensing at least one liquid product or a product in the form of a cream. The assembly comprises a container (2) to which is fixed a distributor head (3) comprising at least one delivery channel. The end of the delivery channel is closed according to the invention by means of a closure system (F) comprising a valve (51) of flexible material which cooperates in the rest position in a non-sealed manner with a fixed rigid seating (41). The valve (51) moves away from the said seating (41) during dispensing by elastic deformation as a result of the pressure of the product to be dispensed, then moves into a position allowing for air recirculation when dispensing is completed. The assembly (1) may comprise, upstream of the closure device (F), a safety device for interrupting the communication between the container (2) and the closure device (F).

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Cited by

US6112953A; US5373972A; EP0665168A1; US5310094A; EP0761558A1; FR2737706A1; US5785213A; US5533649A; FR2783510A1; FR2690674A1; US5477985A; US5505338A; EP0764590A1; FR2739079A1; US5833123A; CN1062229C; EP0670270A1; FR2716866A1; FR2781133A1; FR2711620A1; EP0649795A3; US5779109A; US6016939A; US6102256A; EP0673852A1; WO2004063042A2; EP0778220A1; WO9521099A1; WO0024644A1; WO9400359A1; WO0017062A1; WO9322220A1

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