

Title (en)
TETHERED CLOSURE DEVICE WITH STABILIZED CONNECTOR ELEMENT

Title (de)
ANGEBUNDENE VERSCHLUSSVORRICHTUNG MIT STABILISIERTEM VERBINDUNGSELEMENT

Title (fr)
DISPOSITIF DE FERMETURE ATTACHÉ AVEC ÉLÉMENT DE LIAISON STABILISÉ

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Application
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Abstract (en)
[origin: WO2023208651A1] The present invention relates to a closure device comprising a base element, wherein the base element has a pouring channel, which extends along a closure axis and has an entry opening and a pouring opening, wherein the base element has a spout-edge portion which surrounds the pouring opening, wherein the closure device comprises a closure cap, wherein the closure cap has a cap top and a lateral cap surface, which circumferentially adjoins the cap top and is arranged cylindrically around a closure-cap axis and therefore extends parallel to the closure-cap axis, wherein the closure cap and the base element are designed such that the closure cap closes the pouring opening in a closed position of the closure cap and releases the same in an open position of the closure cap of the closure device, wherein the closure device comprises an anchor ring and a connecting element, wherein the connecting element connects the anchor ring to the closure cap in a tension-resistant manner, wherein, both in the closed position of the closure cap and in the open position of the closure cap, the anchor ring is in engagement with the base element such that, even in the open position of the closure cap, the closure cap is attached to the base element by the connecting element and the anchor ring, wherein the closure cap, the connecting element and the anchor ring are designed such that the closure cap is articulated on the anchor ring such that it can be pivoted about a pivot axis located substantially perpendicularly in relation to the closure axis, wherein the closure cap, the connecting element and the base element are designed and arranged such that at least a closing-action pivoting movement of the closure cap about the pivot axis is necessary in order to shift the closure cap from the open position into the closed position, wherein the closure device comprises a cutting device, at least part of which is arranged within the pouring channel and which has a cutting element, wherein the closure cap comprises at least a first driver crosspiece, wherein the first driver crosspiece and the cutting device are designed and arranged such that rotation of the closure cap for the first time in an opening direction of rotation gives rise to the cutting element moving from a starting position of the cutting element in a direction oriented from the pouring opening towards the entry opening, so that at least part of the cutting element can be moved, through the entry opening, out of the pouring channel, wherein the closure axis is the axis of rotation of the opening direction of rotation, wherein the first driver crosspiece comprises an inner surface, which is directed towards the axis of the closure cap, and an outer surface, which is directed away from the axis of the closure cap, wherein the first driver crosspiece is connected to the cap top on the inside and extends axially away from the cap top.

Abstract (de)
Die vorliegende Erfindung betrifft eine Verschlussvorrichtung für einen Behälter, insbesondere für eine Kartonverpackung, wobei die Verschlussvorrichtung ein Basiselement umfasst, wobei das Basiselement einen sich entlang einer Verschlussachse erstreckenden Ausgießkanal mit einer Eingangsöffnung und einer Ausgießöffnung aufweist, wobei die Verschlussvorrichtung eine Verschlusskappe umfasst, wobei die Verschlusskappe einen Kappendeckel und einen sich umfangseitig an den Kappendeckel anschließenden und axial erstreckenden Kappenmantel aufweist, wobei die Verschlusskappe und das Basiselement derart ausgebildet sind, dass die Verschlusskappe die Ausgießöffnung in einer geschlossenen Stellung der Verschlusskappe verschließt und in einer geöffneten Stellung der Verschlusskappe freigibt, wobei die Verschlussvorrichtung einen Ankerring und ein Verbindungselement umfasst, wobei das Verbindungselement den Ankerring mit der Verschlusskappe zugfest verbindet, wobei der Ankerring sowohl bei der geschlossenen Stellung der Verschlusskappe als auch bei der geöffneten Stellung der Verschlusskappe derart in Eingriff mit dem Basiselement ist, dass die Verschlusskappe auch in der geöffneten Stellung der Verschlusskappe mit dem Verbindungselement und dem Ankerring an das Basiselement angebunden ist.

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CPC (source: EP)
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• [XAI] WO 2019238988 A1 20191219 - GONZALEZ SANCHEZ JOSE FRANCISCO [ES]
• [XA] DE 202021103289 U1 20210709 - SIG TECHNOLOGY AG [CH]

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