

Title (en)
SAFETY CLOSURE CONTAINERS.

Title (de)
SICHERHEITSVERSCHLUSS FÜR CONTAINER.

Title (fr)
FERMETURE DE SECURITE POUR CONTENEURS.

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Application
EP 82901509 A 19820511

Priority
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Abstract (en)
[origin: GB2131776A] A safety closure for containers comprises an assembled combination of an inner cap (103) housed in and surrounded by an outer cap (102). The inner cap (103) is provided along its outer circumferential surface or skirt portion (104) with a series of first teeth (106), the inner depending skirt portion of the outer cap (102) is provided with a series of second teeth (107) which can be brought in engagement with the first said teeth (106) by means of a relative coaxial movement of the inner and outer caps. The safety closure can be unscrewed from the container or screwed upon the mouth of the container respectively only by exerting upon the outer cap (102) a downward pressure causing the said teeth (106 and 107) to become interengaged, whereafter the inner cap (103) can be turned. The downward pressure upon the outer cap is resiliently resisted by means of spring elements or lips (118) depending from the upper wall portion (113) of the outer cap (102) which lips (118) are flexing against a wall portion (110) of the inner cap (103) which is located inside the container mouth and which converges annularly. The inner cap (103) is provided with a central cylindrical portion (111) rising up from said annulus (114), said lips (118) being operable in the space between the said cylindrical portion (111) and the inner mouth portion of the inner cap. Said central upper surface (112) of the inner cap (103) being rigidly and integrally connected to the remaining inner cap portion (110) in such a manner as to resist weight loads placed upon the safety closure even if the outer cap surface (113), surrounding the said central portion (112) may be slightly depressed thereby. The surface of said central cylindrical portion (111) being shaped as a central guide to the surrounding edge portion of the outer cap (102) during its coaxial movement if downward pressure is exerted. It is preferred to have the surfaces of the upper portions (112, 113) of the inner and outer caps (103, 102) lying in nearly the same horizontal plane to render the safety closure a one piece outlook.

Abstract (fr)
Une fermeture de securite pour conteneurs consiste en une combinaison assemblee d'un couvercle interieur (103) loge et entoure par un couvercle exterieur (102). Le couvercle interieur (103) est pourvu le long de sa surface circonferentielle ou de sa portion de jupe (104) d'une serie de premieres dents (106), la portion de jupe interieure du couvercle exterieur (102) est pourvue d'une serie de secondes dents (107) qui peuvent etre amenees en engagement avec les premieres dents (106) par un mouvement coaxial relatif des couvercles interieur et exterieur. La fermeture de securite peut etre devissee du conteneur ou vissee sur l'embouchure du conteneur respectivement seulement en exerçant sur le couvercle exterieur (102) une pression vers le bas provoquant l'interengagement des dents (106 et 107), apres quoi l'on peut faire tourner le couvercle interieur (103). Des elements ressorts ou levres (118) dependant de la portion de paroi superieure (113) du couvercle exterieur (102) opposent une resistance elastique a la pression vers le bas exercee sur le couvercle exterieur, lesquelles levres (118) se plient contre une portion de paroi (110) du couvercle interieur (103) qui est situee a l'interieur de l'embouchure du conteneur et qui converge de maniere annulaire. Le couvercle interieur (103) est pourvu d'une portion cylindrique centrale (111) s'levant depuis l'anneau (114), les levres (118) pouvant etre actionnees dans l'espace compris entre la portion cylindrique (111) et la portion d'embouchure interieure du couvercle interieur. La surface superieure centrale (112) du couvercle interieur (103) est reliee de maniere rigide et solidaire a la portion restante du couvercle interieur (110) de maniere a resister aux charges de poids placees sur la fermeture de securite meme si la surface du couvercle exterieur (113), entourant la portion centrale (112), peut etre legerement enfoncee par celles-ci. La surface de la portion cylindrique centrale (111) possede la forme d'un guide central pour la bordure du couvercle exterieur

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