

Title (en)
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Application
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• AU PD041677 A 19770610
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Abstract (en)
[origin: EP0000091A1] A push-in pressure releasing resealable closure for an aperture in a sheet metal container member is disclosed, wherein the closure is integral through a connection of metal to the remainder of the container member. The closure is designed so that it is depressible into the container by flexing about the connection when push-in force is applied to the closure, without exceeding the elastic limit of the connection, so that the closure is returned at least substantially to its original position to seal the can contents, upon removal of the push-in force from the closure. The closure is particularly suitable for use in containers for carbonated beverages, such as carbonated soft drinks and beer, so that the gas pressure within the container may be released without danger of substantial gushing or spurting, to permit a larger pouring opening in the container member to be opened. The specification discloses several embodiments of the pressure releasing closure including one in which the closure is formed partly within a pouring closure and partly outside said pouring closure whereby the pressure releasing closure is permanently opened by the opening of said pouring closure to create an air vent or liquid draining opening outside the pouring closure. The specification also discloses methods of forming closures in which the number of forming stages is reduced. In one method, the closure piercing operation is performed at the same time as the edge of the tab is downwardly reformed. In another method, the sheet metal around the opening is also reformed in the same operation.

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US 2261117 A 19411104 - JACK JR GEORGE BRINTON

Cited by
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