Title (en)

METAL CONTAINER CAPABLE OF WITHSTANDING INTERNAL OVER PRESSURE

Title (de)

BEHÄLTER AUS METALL, DER DURCH INNEREN ÜBERDRUCK BELASTBAR IST

Title (fr)

RECIPIENT EN METAL POUVANT SUPPORTER UNE SURPRESSION INTERNE

Publication

EP 0686120 B1 19961218 (DE)

Application

EP 94909025 A 19940223

Priority

- DE 9303113 U 19930305
- EP 9400510 W 19940223

Abstract (en)

[origin: US6241116B1] A container of metal capable of withstanding an internal overpressure includes a hollow vessel for containing contents having an essentially cylindrical side wall and two outwardly curved end walls formed as partial spherical surfaces. At least one of the curved end walls has a central bulge protruding as a cup-shaped bottom from the curved end wall. A container connecting pipe is mounted on the central bulge of the at least one curved end wall. An intended breaking point is integrated in at least one of the partial spherical surfaces formed by one of the end walls, wherein the intended breaking point is a notch formed in an outer side of the end wall, and wherein the notch has varying depths with a maximum depth and a minimum depth. The notch has a geometric configuration whereby the minimum depth is located diametrically opposite the maximum depth and the maximum depth of the notch is located in a portion of the end wall which, when the notch is not present, is subjected to the greatest deformation under the influence of a defined internal pressure which exceeds the permissible operating pressure. The notch is arranged so as to extend transversely of the direction of maximum expansion of the end wall.

IPC 1-7

B65D 8/00; F17C 13/12

IPC 8 full level

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CPC (source: EP US)

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Cited by

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