

Title (en)

PLASTIC BOTTLE

Title (de)

KUNSTSTOFFFLASCHE

Title (fr)

BOUTEILLE EN MATIÈRE PLASTIQUE

Publication

EP 3072825 A4 20170531 (EN)

Application

EP 14864758 A 20141121

Priority

- JP 2013242267 A 20131122
- JP 2014080870 W 20141121

Abstract (en)

[origin: EP3072825A1] Provided is a plastic bottle that can be depressed and restored without damaging the bottle shoulder portion even with thin plastic bottles and that can effectively handle top loads. A shoulder portion (3) has, in order from the top, a first circumferential rib (311), a second circumferential rib (312), and a third circumferential rib (313), each being annular, on the same axis as an opening (2) and is configured so that a plastic bottle (1) transitions to a depressed state in which the bottle is depressed down by deformation that starts at the first circumferential rib (311), the second circumferential rib (312), and the third circumferential rib (313) when a top load (F) is acting on the bottle and so that the depressed state can be maintained even after the top load (F) is removed.

IPC 8 full level

B65D 1/02 (2006.01); **B65D 1/42** (2006.01)

CPC (source: EP US)

B65D 1/0223 (2013.01 - EP); **B65D 1/0292** (2013.01 - EP); **B65D 23/102** (2013.01 - EP); **B65D 79/0084** (2020.05 - EP US); **B65D 2501/0036** (2013.01 - EP)

Citation (search report)

- [XY] EP 1550612 A1 20050706 - GOHSHO COMPANY LTD [JP]
- [YA] FR 2873353 A1 20060127 - GUSTAVE STEVE [FR]
- See references of WO 2015076362A1

Cited by

US11623781B2; WO2018149661A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

EP 3072825 A1 20160928; EP 3072825 A4 20170531; EP 3072825 B1 20180905; AU 2014354043 A1 20160707; AU 2014354043 B2 20180816; AU 2018211260 A1 20180816; AU 2020201868 A1 20200402; AU 2020201868 B2 20211209; CN 105916776 A 20160831; DK 3072825 T3 20190107; JP 2015101361 A 20150604; JP 6537770 B2 20190703; WO 2015076362 A1 20150528

DOCDB simple family (application)

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