

Title (en)
Base for pressurized bottles

Title (de)
Boden für Druckflaschen

Title (fr)
Base pour bouteilles sous pression

Publication
EP 2289809 B1 20120404 (EN)

Application
EP 10075356 A 20100819

Priority
US 55202509 A 20090901

Abstract (en)
[origin: EP2289809A1] A plastic bottle (10) with a base (14) centered on a vertical axis (Y), a continuous standing ring (16) to support the bottle, a side wall (18) formed unitarily with the base extending from the base upward to an upper side wall end (20), and a neck (22) connected to the side wall upper end, the neck including a finish (24) adapted to receive a cap to close an opening (26) into the bottle interior. The bottle base standing ring is defined in vertical cross-section by a continuous curve bounded on a radial inside by an interior region (32) that can include a plurality of concave domed wedge-shaped sections (34) interspaced with buttress sections (36) having substantially planar inclined outer portions (38). The bottle base standing ring has a diameter (D) less than 80% of the maximum side wall width (W) and is bounded on a radial outside by a conic section portion (46) centered on the vertical axis having an apex angle of less than 160° to improve the perpendicularity of the bottle.

IPC 8 full level
B65D 1/02 (2006.01)

CPC (source: EP US)
B65D 1/0276 (2013.01 - EP US)

Cited by
CN104097822A; CN112797306A; EP4169840A1; US12054304B2

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 SE SI SK SM TR

DOCDB simple family (publication)
EP 2289809 A1 20110302; EP 2289809 B1 20120404; AT E552177 T1 20120415; US 2011049083 A1 20110303

DOCDB simple family (application)
EP 10075356 A 20100819; AT 10075356 T 20100819; US 55202509 A 20090901