

Title (en)
UNIVERSAL CASE FOR TRANSPORTING BOTTLES

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EP 0212874 A3 19880803 (EN)

Application
EP 86305810 A 19860729

Priority
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Abstract (en)
[origin: EP0212874A2] A universal case is capable of transporting PET bottles of a basecup type and a petaloid type. The case (2) includes an outer shell (4, 6) and a plurality of support ribs (32, 34, 36, 38) for reinforcing the shell. The outer shell and support ribs are shaped to define a plurality of bottle pockets (25) for receiving the bases of PET bottles. A bottle seating structure (40) is associated with each bottle pocket (25) and includes a base-cup-bottle alignment structure (42, 44, 48) and a petaloid-bottle alignment structure (54, 56). The base-cup-bottle alignment structure (42, 44, 48) is configured to orient (42, 44) a PET bottle (100) of the base-cup-type seated in the bottle pocket (25) so that a longitudinal symmetry axis of the bottle extends generally parallel to a pocket centerline. The petaloid-bottle alignment structure (54, 56) is adapted to orient a PET bottle of the petaloid type seated in the bottle pocket (25) so that the longitudinal symmetry axis of the bottle extends generally parallel to the pocket centerline. The case also includes a case rest (60) associated with each bottle pocket (25). The case rest (60) has a central-base-surface bottle-to-case load-transmission surface (61) facing the bottle pocket (25) and a case-to-closure load-transmission surface (63) facing outward from the bottom of the case. Contact surfaces of the base-cup-bottle alignment structure and the petaloid-bottle alignment structure are offset from one another so that the central base surface bottle-to-case load-transmission surface (61) of the case rest (60) is positioned to contact a central base surface (108, 130) of bottles (100, 120) of both the base-cup type and the petaloid type when the bottles are seated in the bottle seating structure (40). Cases of the invention filled with PET bottles of either the base-cup type or the petaloid type can be stacked in multitiered structures with the case-to-closure load-transmission surfaces (63) of the case rests (60) in the upper tiers resting on the tops of the closures (112, 128) of bottles (100, 122) in cases immediately below with weight tending to be transmitted from a central base surface (108, 130) of a bottle (100, 120) in an upper case substantially directly compressively through the case rest (60) of the case to the tops of the closures (112, 128) of the bottles (110, 122) in a next lower case.

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Citation (search report)
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