Dec. 8, 1942. H. W. FINN ET AL 2,304,683

HAMPER MANUFACTURE

Filed July 31, 1940 2 Sheets-Sheet 1

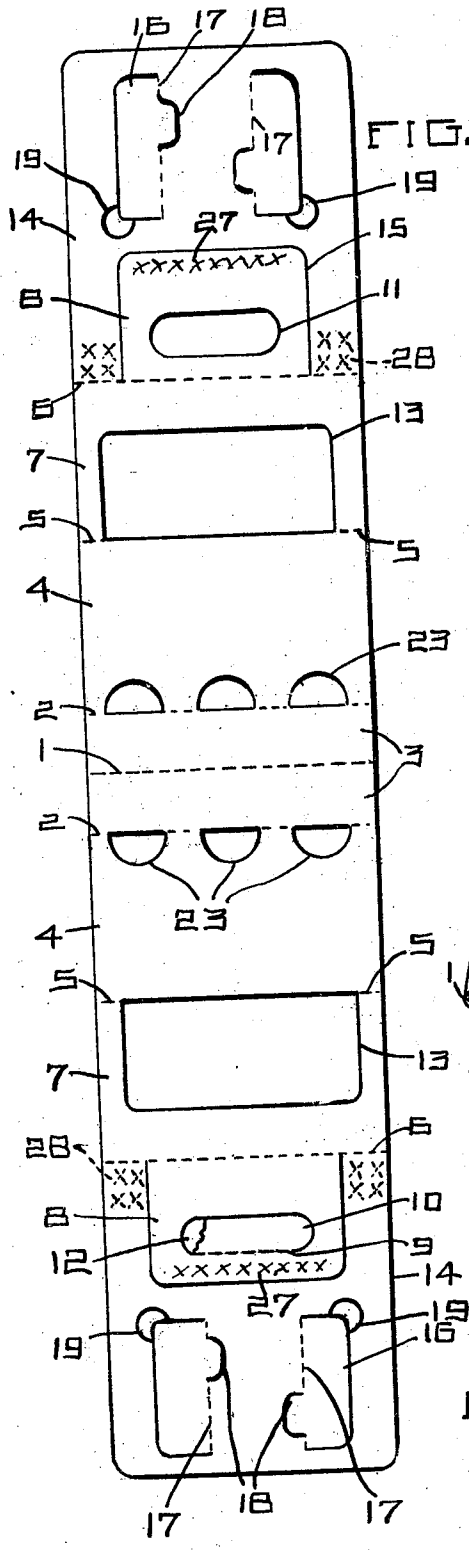


FIG. 2

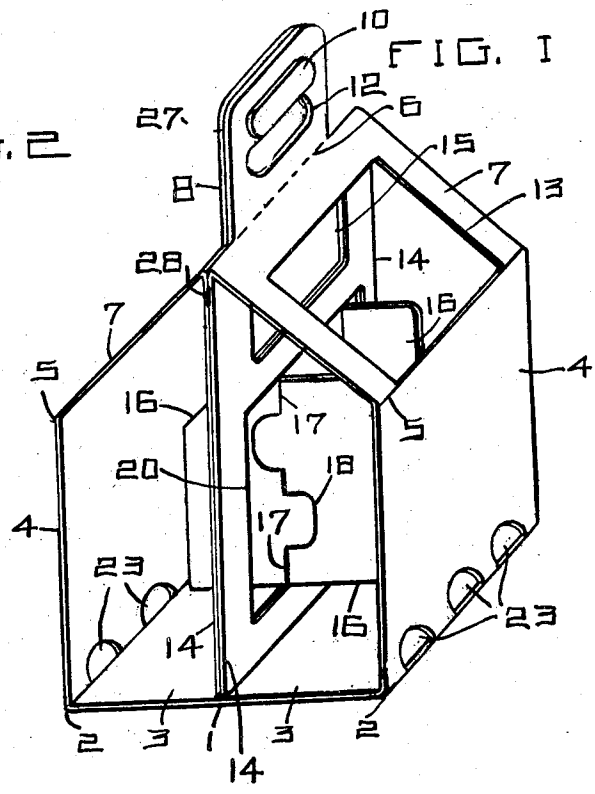


FIG. 1

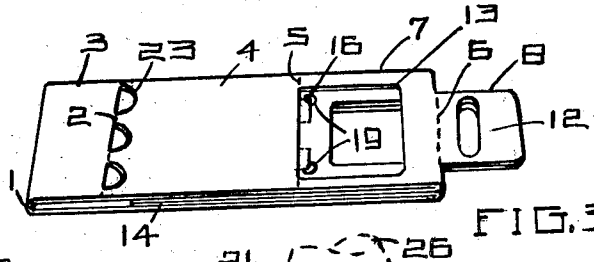


FIG. 3

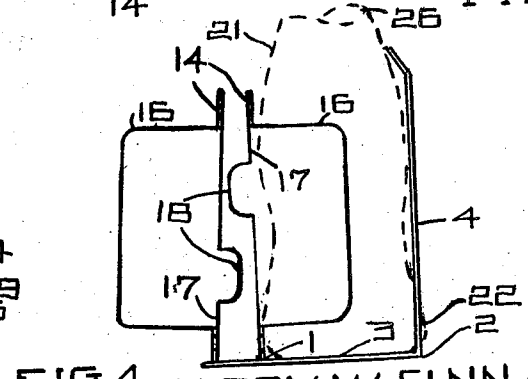


FIG. 4

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HAMPER MANUFACTURE

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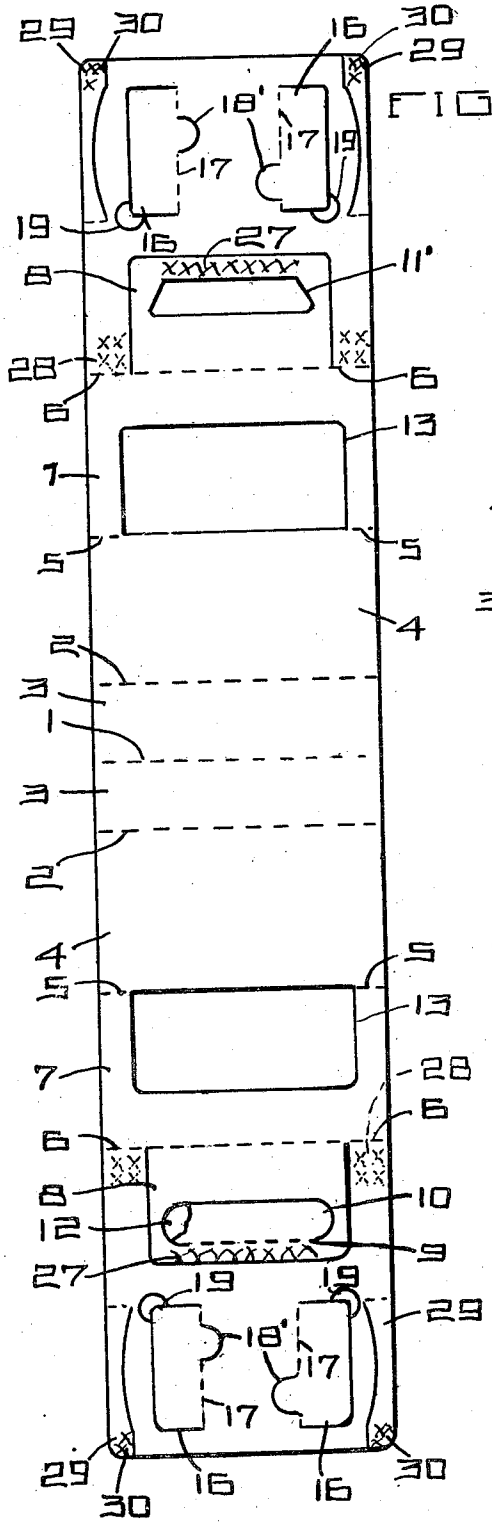


FIG. 6

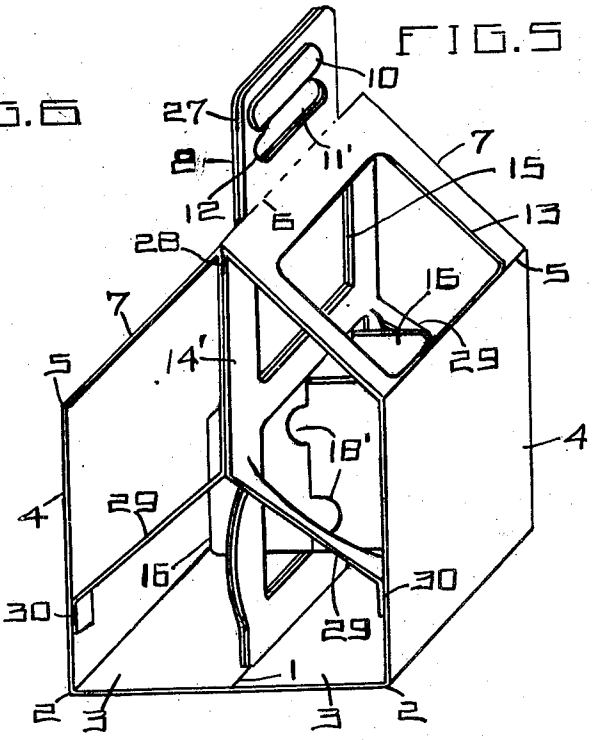


FIG. 5

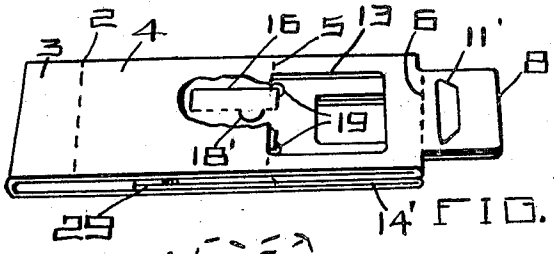


FIG. 7

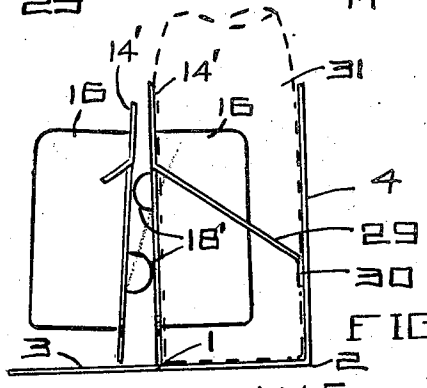


FIG. 8

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Patented Dec. 8, 1942

2,304,683

UNITED STATES PATENT OFFICE

2,304,683

HAMPER MANUFACTURE

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Application June 31, 1940, Serial No. 348,778

3 Claims. (Cl. 224—45)

This invention relates to compartment-providing carriers of the portmanteau form, especially for isolating separate containers of the type of beverage bottles.

This invention has utility when incorporated in paper board strip units with the ends foldable toward abutting relation to provide bottle spacing partition and stalls with a grip upwardly therefrom.

Referring to the drawings:

Fig. 1 is a perspective view in set-up position of an embodiment of the invention in a carrier, say for a half dozen beverage bottles;

Fig. 2 is a plan view of the blank or strip for the hamper or carrying case of Fig. 1;

Fig. 3 is a perspective view of the assembled collapsed strip in readiness to be set up into the carrier of Fig. 1;

Fig. 4 is a fragmentary detail view showing the spread between the partition sections in shifting the wing toward stall forming position;

Fig. 5 is a perspective view of an embodiment of the invention as a hamper for cylindrical type of container in lieu of special double swell type to which the device of Fig. 1 is more particularly adapted;

Fig. 6 is a plan view of the strip or blank for the hamper of Fig. 5;

Fig. 7 is a view of the strip of Fig. 6 in collapsed assembled position ready to be set up into the hamper of Fig. 5, parts being broken away; and

Fig. 8 is a detail view showing the bottle in position and with the swinging of the wing at spreading partition for the wing to come to stall forming position.

In the carrying out of the invention herein, strip stock, say of paper board, box board or the like, may be used as the basis for the blank. In practice two ply pasted paper board of .036" has been found acceptable not only for the formation but in the calendared base, at least one thereof to receive advertising or printing notation. This strip sheet stock blank of paper board may have scoring 1 medially thereof, with parallel scorings 2 therefrom in locating row portions 3 for the bottom. Therefrom parallel opposing riser sides 4 extend to scoring 5. Parallel with the scoring 5 is scoring 6 and between these scorings 5, 6 are located shoulder portions 7, which, in set-up position, may be inclined toward each other to meet at the scoring 6 and there have grip portions 8 extend from such scorings 6. One of these grip portions 8 has hinge 9 for defining tongue 10. Companion or complementary grip portion 8 has cutout 11, which in the set-up position for these scorings 6 as adjacent permits the defined portion 10 to swing out of its opening 12 through the cutout 11 in providing a complete hand hold for the grip.

Adjacent the scoring 5 and extending toward the scoring 6 in the shoulder regions 7 there are windows or cutouts 13. From the scoring 6 as beyond the grip portions 8 are partition portions 14 adapted to come into parallelism in the set-up hereunder. As these partition portions 14 are opposite or depend from the grip portions 8 there is register therebetween for window 15 in the region of the windows 13, thus leaving relative clearway in the hamper above the sides 4. The extent of this partition 14 may be that of the vanes of the shoulders 7 plus the sides 4, thereby abutting the scoring 1 in the position for the bottom sections 3, 3, to be in a common plane with a row way on each side of this two ply partition 14. This partition 14 has wing-defining portions 16 with hinge 17, locking tongue 18 past such hinge as defined. Cutout 19 permits access to this wing 16 to swing it out of its window 20 and as so swung outward the tongue 18 will ride on the companion partition 14 until this tongue 18 may snap against the face of the companion wing 16. Accordingly, as the pair of wings adjacent are moved into position at approximately right angles to the partition portions 14, there is an automatic locking of these wings as stall-providing portions so coacting that container or bottle 21 may not be in direct contact, and there is thus avoidance of any rubbing action to mar the container, bottle, or any marking which may be thereon.

In the instance of the special type of container 21 having bottom enlargement 22, there is supplemental holding action against shifting of the container as to the row. This, at the base 22, may be effected by windows or ports 23 centrally of the respective stalls and from the score lines 2 rising away from the bottom and along the sides 4 for rigidly keying or holding the bottles apart. This means that this enlarged portion 22 of the bottle 21 is seated in the port 23 against readily shifting outward even in careless handling of this charged hamper. Upwardly extending or reduced neck portion 26 of the container 21 may extend through the window 13 of the shoulder and thereby provide adequate holding means for the bottles or containers, in the event the more accurate holding attained by the ports 23 be omitted.

In the carrying out of this invention, the

strip of Fig. 2 may have the blanking-out for the windows 13, 11, 19, as well as the ports 23 when such are in order, the defining for the grip 10, wings 16, and tongues 18, the scorings 1, 2, 5, 6, 17. Openings 19 leave full form for the respective wings 16. Assembly is effected by adhesive 27 binding at the free or upper portions of the grip portions and at binding 28 between the portions 14 as opposing each other and adjacent the score lines 6. There is accordingly sealing only at above and below the sides of the region of the grip. In this set-up, the assembled hamper may be stored or shipped in the flat (Fig. 3). This is a compact, substantial, knock-down position for the assembled device. As occasion arises for use, one may take hold of the grip, thrust through to shift the portion 10 on its hinge 9 into the companion window or opening 11 in completing the hand hold. Then by setting the container to bring the bottom portions 3, 3, into alignment, the hamper is in set-up position as to the partitions 14. At this time it is proper to engage the wing 16 by way of the clearance opening 19 and swing the wings as registering, outward into stall-forming position. This springs the partition portions 14 away from each other until the tongues 18 come into registering or locking holding position with the companion wings. The hamper is thus completed ready to have the respective bottles inserted through the windows 13, say three on each side for the half dozen set-up of this hamper. When the delivery is completed, in the event it be desired to conserve the container, it is only necessary, as the bottles are removed, to collapse the hamper into the flat and retain such for subsequent use.

In the instance there be latitude for such type of carrier as omits the ports 23, there may be purpose in completing terminal stalls of the respective rows. To such end, the partition 14' may have strips 29 therefrom anchored by adhesive 30 with the inner portions of the sides 4 (Fig. 8). This means there is an effective retention against and spill of a terminal container or bottle 31 even as non-swell or cylindrical as to its base portion.

Cutout 11' (Figs. 5, 6, 7) offers resistance to the rounded end of the tongue 18 as thrust through or out of its rounded end opening 12 and into this cutout 11'. Accordingly, in this form there is this additional holding of the tongue as thrust through into the three ply hand hold portion of the grip.

Tongues 18' are desirably of rounded corners at their free ends and of a transverse dimension sufficiently substantial to key the stall, and these may be even of dissimilar extent. With the loop in position set up to have the grip uppermost and the bottom portions 3, 3, in a common plane, then the partition 14' is theretoward, approaching the scoring 1. At such position, to place in readiness for receiving the half dozen bottles, the operator may thrust hands in the windows 13 and simultaneously shift the four wings 16 into perpendicular position as to the partition 14'. In so doing, the tongues 18, 18', of the respective hampers snap past the hinge portions 17 of the stalls and thus readily lock the bottle carrier or carton in set-up position to receive the bottles. In this set-up the extent of the stalls is sufficient to space the bottles against any rubbing action directly of one bottle as to an adjacent bottle, whether at the wing portions 16 or at the partition 14'.

What is claimed and it is desired to secure by United States Letters Patent is:

1. A hamper strip comprising a medial bottom-providing portion, a pair of opposing parallel sides extending upwardly from the bottom, a pair of shoulders inclined from the sides remote from the bottom, a pair of grip sections from adjacent the strip termini beyond the shoulders, together completing a hand hold, and strip termini partition portions dependable from the shoulders adjacent the hand hold, said grip portions being swingable out from the shoulders to leave a clear-way window in the partition below the shoulders.

2. A hamper strip comprising a medial bottom-providing portion, a pair of opposing parallel sides extending upwardly from the bottom, a pair of shoulders inclined from the sides remote from the bottom, a grip section from each shoulder beyond the shoulder, said two grip sections being assembled to complete a hand hold, strip termini beyond the grip sections forming abutting partition portions dependable from the shoulders adjacent the hand hold, and a pair of oppositely swingable wings from the partition portions, a wing on one partition portion having a projecting tongue adapted to engage the opposite wing to hold the pair of wings at an angle away from the partition.

3. A hamper strip comprising a medial bottom-providing portion, a pair of opposing parallel sides extending upwardly from the bottom, a pair of shoulders inclined from the sides remote from the bottom, a grip section toward each terminus of the strip from each shoulder beyond the shoulder, said two grip sections being assembled to complete a hand hold, strip termini beyond the grip sections forming abutting partition portions dependable from the shoulders adjacent the hand hold, and oppositely swingable registering wings hinged to the respective partitions, there being a projecting tongue from one of the wings adapted to engage an adjacent wing for the pair of wings to extend at an angle to form, with the partition, stalls in the hamper for spacing articles.

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