Oct. 16, 1934. R. D. WHITE 1,977,160

SIDE PAD FOR SHIPPING CASES

Filed June 8, 1931

FIG 1

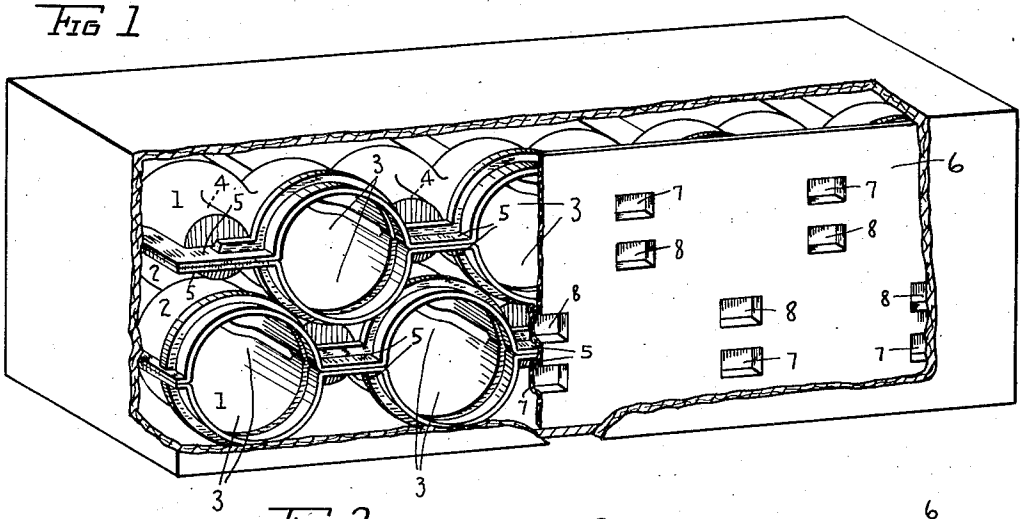


FIG 2

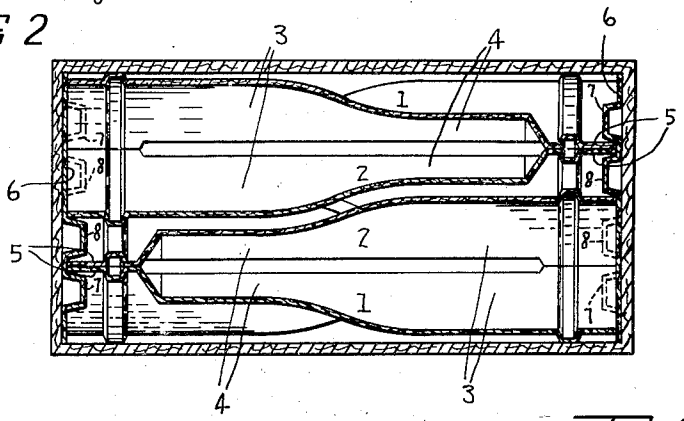


FIG 3

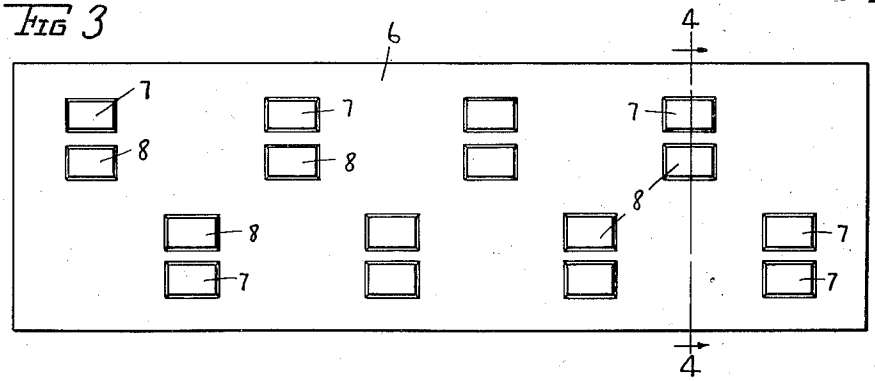


FIG 4



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Patented Oct. 16, 1934

1,977,160

UNITED STATES PATENT OFFICE

1,977,160

SIDE PAD FOR SHIPPING CASES

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Application June 8, 1931, Serial No. 542,784

1 Claim. (Cl. 206—65)

This invention relates to packing for the protection of fragile articles during shipment and in storage, it more particularly relating to a side-pad insertable between the articles and their packing enclosures and the side walls of the shipping case for the purpose of providing additional supports for the packing enclosures as well as furnishing a cushion between the articles and the shipping case.

An object of my invention is to provide a side-pad so constructed that it will engage with the packing material enclosing the articles and assist in supporting the same and thereby provide a better cushioning effect for the articles.

In the accompanying drawing:

Fig. 1 is an elevation in perspective, partly broken away, to show the interior of a container in which is placed a plurality of nested packing boards and improved side-pads.

Fig. 2 is a vertical section through the container illustrated in Fig. 1.

Fig. 3 is a plan view of one of the improved side-pads.

Fig. 4 is a transverse section on the line 4—4 of Fig. 3.

The packing enclosures for the articles, which in the present case are designed for bottles, consist of mating packing boards 1 and 2 complementary to each other, each board being provided with a plurality of cavities conforming to the shapes of the bottles, each cavity having a large portion 3 to receive the body of the bottle and a reduced portion 4 to receive the neck of the bottle. These cavities are alternately extended in opposite directions in slightly staggered relation, those portions of the board at the outer end of each reduced cavity portion 4 forming a flat surface 5, which when two mating boards are placed together to form a complete enclosure, constitutes in effect a web which extends between the walls of the large portions 3 of adjacent cavities and also extends from the reduced cavity portion 4 to the edge of the board. When the packing boards and their contents are nested in the manner shown in Fig. 1, it will be observed that there will be an open space above and below each web portion 5, and that each web portion will be in vertical alignment with the end of one of the large cavity portions 3.

In packing fragile articles with packing boards of this kind, it has been usual to place side-pads between the packing enclosures and their contents and the sides of the shipping case to better protect the packed articles. My present improvement consists in so forming these side-pads that they will engage with the packing enclosures in such a way as to support such enclosures at their sides, and thus provide for not only protecting fragile articles from the sides of the shipping case but also provide for strengthening the enclosures and furnish a better cushioning effect for the articles. To that end I have provided the side-pads with protuberances which extend into the open spaces between the nested packing boards and engage with certain portions of the boards to act as supports therefor.

The side-pads are indicated at 6, and like the packing enclosures, are moulded from fibre pulp. Each pad 6 has formed thereon during the moulding process a plurality of laterally extending bosses 7, these bosses being arranged in pairs as indicated at 7 and 8, the bosses of each pair being spaced apart. These bosses are so arranged on the pad as to register with the open spaces between the packing boards, in the present case the open spaces above and below the webs 5. In the present case two series of bosses are employed extending in the direction of the length of the board, one series being in staggered relation with the other, and the bosses of each pair are spaced a sufficient distance apart to receive the webs 5, the height of each boss being substantially the same as the distance between a web 5 and an adjacent wall cavity 3, and being also of a width substantially equal to the width of the web 5. By this arrangement when a web 5 is inserted between a pair of bosses 7 and 8, one of the bosses will snugly fit the space between the web 5 and an adjacent upper or lower cavity wall of a nested packing board. These bosses will therefore act as supports for the enclosures for the articles either in the position of the shipping case shown in Fig. 1 or when it is inverted bottom for top.

Having thus described my invention, I claim:

In combination with packing enclosures for fragile articles, each enclosure formed of two members having mating cavities, each cavity formed of a large portion to accommodate the body of the bottle and a reduced portion to accommodate the neck thereof, the cavities extended alternately in opposite directions in slightly overlapping relation, with mating web portions at the end of each reduced cavity portion and extending between adjacent large cavity portions near the edges of the enclosures, of a side-pad insertable between each side of the enclosures and the sides of a shipping case, each side-pad having a plurality of spaced bosses projecting on each side of each web to support all of said enclosures by the pads, with some of said bosses adapted to contact the walls of the large cavity portions of enclosures for adjacent rows of bottles.

RONALD D. WHITE.