C. A. A. FREERKS.

PACKING STRIP.

APPLICATION FILED NOV. 16, 1909.

1,004,159. Patented Sept. 26, 1911.

Fig. 1.

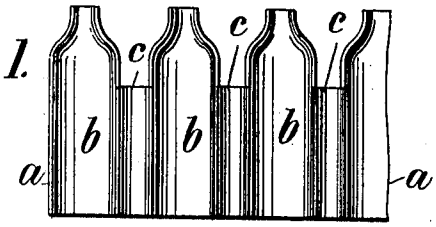


Fig. 2.

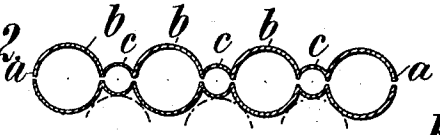


Fig. 3.

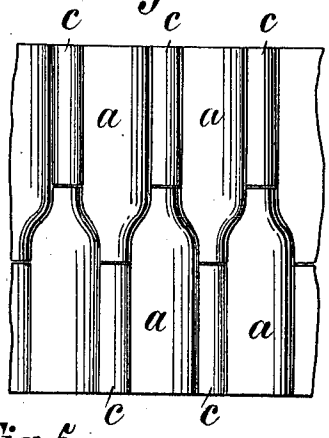


Fig. 4.

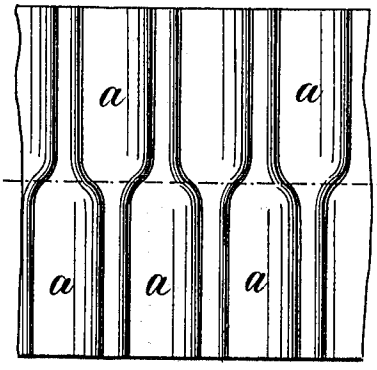


Fig. 5.

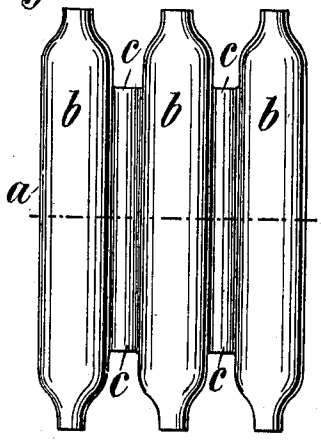


Fig. 6.

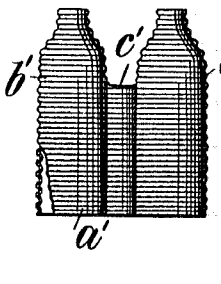
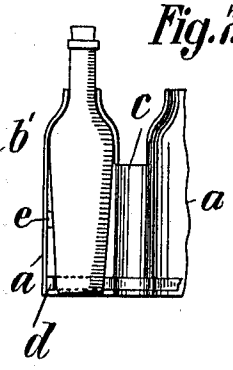


Fig. 7.



Witnesses

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UNITED STATES PATENT OFFICE.

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PACKING-STRIP.

1,004,159. Specification of Letters Patent. Patented Sept. 26, 1911.

Application filed November 16, 1909. Serial No. 528,404.

To all whom it may concern:

Be it known that I, CORA ALMA ALICE FREERKS, a citizen of the free city of Bremen, Germany, have invented certain new and useful Improvements in Packing-Strips; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

My invention relates to bottle packings and has for its object to provide a simple, efficient and cheap packing for bottles preferably in strips, whereby bottles may be readily packed in boxes and securely held against breakage by the packing.

Referring now to the drawings, in which like parts are similarly designated; Figure 1 is an elevation of a portion of a packing strip made in accordance with my invention. Fig. 2 is a longitudinal transverse section thereof showing two such packing strips and their manner of use. Fig. 3 is a view similar to Fig. 1 showing the manner of interfitting the strips. Figs. 4, 5, 6 and 7 show modifications.

The packing strip *a*, Figs. 1 and 2, conveniently made of paper pulp, cardboard or the equivalent is provided with large recesses *b* to accommodate the bodies of the bottles alternating with smaller recesses *c* to accommodate if desired bottle necks of an adjacent row. The depressions may be of any desired shape in cross section, preferably having a cross sectional shape of one half of a regular geometrical figure, herein shown by way of example, approximately semi-circular. The large cylindrical portions are, preferably but not necessarily, contracted at their upper ends in order to conform to the contour of the shoulders of the bottles and are somewhat longer than the smaller semi-cylindrical portions *c* that separate the larger cylindrical portions *b*.

In order to use the packing shown in Fig. 1 one strip of packing forming the lower half of a layer is laid in the bottom of the box, the bottles are placed therein and the strip forming the upper half is placed over the bottles in the lower half. The bottom half of the next layer is then placed on the first layer and displaced longitudinally about half a bottle's diameter, so that the recesses *b* for the reception of the bodies of the bottles rest on the portions *c* and on the adjacent portions *b* of the lower layer in the manner indicated in dotted lines in Fig. 2.

In Fig. 3 is shown two sets of packings placed end to end so that the necks of the bottles on one set will be able to enter the portion *c* of the abutting set and the reduced ends of the larger cylindrical cells formed by two layers will be substantially in alinement with the smaller cells.

In Fig. 4 I have shown a modification of the strip shown in Fig. 1, in which the double row arrangement shown in Fig. 3 is formed in a single piece and should it be desired to place but a single row of bottles in a layer of this form then this strip Fig. 4 may be cut along the dotted line indicated thereon.

In Fig. 5 I have shown two strips like Fig. 1 made in a single piece where the reduced end portions of the recesses *b* forming the larger cells project beyond both ends of the portion *c* forming the smaller cells. This strip can then be readily separated along the dotted line, Fig. 5 and used in the manner indicated in Fig. 3.

In Fig. 6 I have shown a portion of a strip *a'* having corrugations transverse to the cell portions *b'* and *c'* to further strengthen the layers and in Fig. 7 I have shown a modification where the lower ends are provided with strips *d* as indicated or with projections *e* of any sort which reinforce the larger ends of the cells and compensate for the conicity of the bottles.

Claims.

1. A packing for bottles comprising a plurality of strips of paste-board or similar material each having a plurality of recesses adapted to conform to one half of a bottle body and a portion of the neck thereof and alternating recesses of substantially the same cross-sectional area as said neck portions and adapted to constitute a continuation of the latter when two strips are laid opposite each other in the same plane.

2. A packing for bottles comprising a plurality of strips of paste-board or similar material each having a plurality of substantially semi-cylindrical portions for the reception of the bodies of the bottles, said portions contracted to conform to the bottle shoulder and a portion only of the bottle

neck and alternating semi-cylindrical recesses shorter than the other recesses and of substantially the same cross-sectional area as the neck portions, said alternate recesses adapted to form a continuation of said contracted portions when two strips are laid opposite each other in the same plane.

In testimony that I claim the foregoing as my invention, I have signed my name in presence of two subscribing witnesses.

CORA ALMA ALICE FREERKS.

Witnesses:

BRUNO AUERBACH,

JOHANNES BENNDORF.