

(No Model.)

A. H. MEECH.
BOTTLE PACKAGE OR PACKING BOX.

No. 492,305.

Patented Feb. 21, 1893.

Fig. 1.

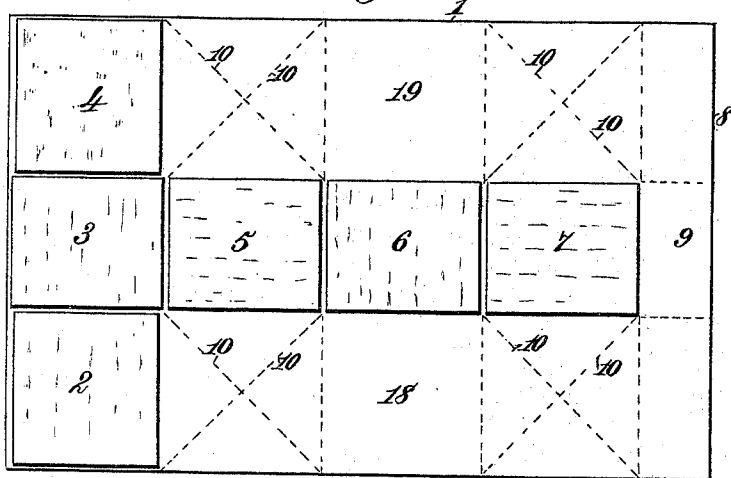


Fig. 2



Fig. 3.

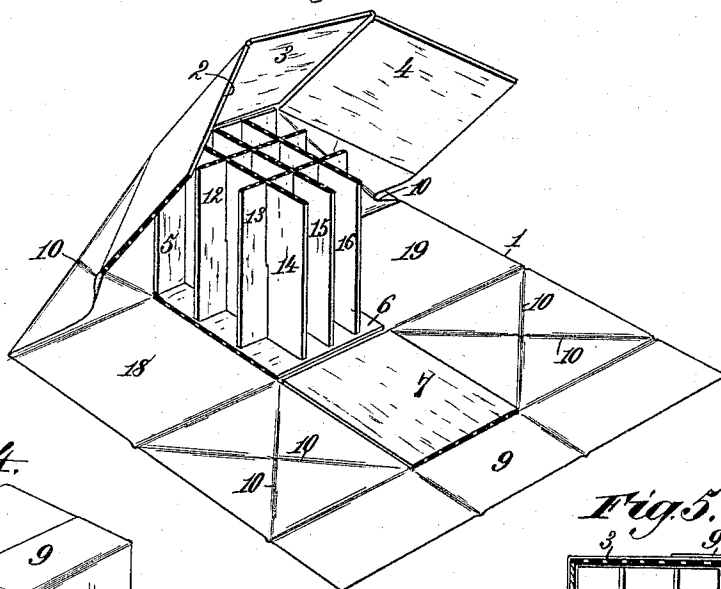


Fig. 4.

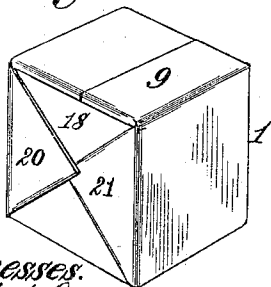
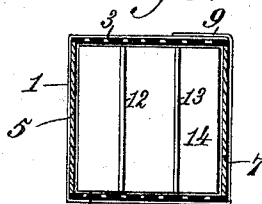


Fig. 5.



Witnesses.

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UNITED STATES PATENT OFFICE.

ALFRED H. MEECH, OF CHATHAM, NEW YORK.

BOTTLE PACKAGE OR PACKING-BOX.

SPECIFICATION forming part of Letters Patent No. 492,305, dated February 21, 1893.

Application filed May 24, 1892. Serial No. 434,179. (No model.)

To all whom it may concern:

Be it known that I, ALFRED H. MEECH, a citizen of the United States, residing at Chatham, in the county of Columbia and State of New York, have invented new and useful Improvements in Bottle Packages or Packing-Boxes, of which the following is a specification.

This invention has for its object to provide a novel, simple, efficient and economical multilocular bottle-package, or a multilateral package or packing box having many bottle receiving cells, which is susceptible of use for safely transporting bottles and other fragile vessels, articles, or objects, and protecting them from breakage or other injury or damage while in transit on cars, vehicles or otherwise from place to place, or while packed away.

The invention also has for its object to provide a new and improved multilocular package or packing box which can be readily and economically manufactured, conveniently applied and placed on the market in the complete form adapted for immediate use in packing and transporting bottles and other fragile vessels or articles, so that light, heat, frost, dirt and the like are excluded from the bottles or vessels and the package can be conveniently shipped, handled or carried without danger of breaking, injuring or damaging the contents.

To accomplish these objects the invention consists essentially in a folding bottle-package or packing box, consisting of a multilocular frame, and a wrapping or inclosing sheet therefor, having soft, flexible packing wall-sections arranged to constitute walls for the several sides of the frame when the latter is wrapped or inclosed in the sheet.

The invention also consists in the combination with a flexible and elastic multilocular frame, of a flexible wrapping or inclosing sheet provided with separated flexible and sponge-like packing wall-sections located in two rows or sets at right angles to each other, in such manner that when the cell frame is wrapped or inclosed in the flexible sheet the said two rows or sets of packing wall-sections will constitute cushioned walls for the several sides of the frame and close the outermost cells thereof.

The invention also consists in other features of construction and combination or arrangement of parts hereinafter described and claimed, reference being made to the accompanying drawings, in which—

Figure 1, is a plan view of the flexible wrapping or inclosing sheet. Fig. 2, is an edge view of the same. Fig. 3, is a detail perspective view showing the multilocular frame in position and the wrapping or inclosing sheet partially wrapped around the same. Fig. 4, is a detail perspective view of the complete bottle package or packing box, and Fig. 5, is a sectional view of the same.

In order to enable those skilled in the art to make and use my invention I will now describe the same in detail, referring to the drawings wherein

The numeral 1 indicates a flexible wrapping or inclosing sheet which as shown is rectangular in form but may be of any other shape suitable for the conditions required. This flexible sheet is composed of Manila or other paper such as felt-paper or other material which will render it susceptible of being folded for the purpose of wrapping up a cell-frame hereinafter described. The paper or other wrapping or inclosing sheet is provided along one edge or end portion with a row or set of soft flexible and elastic packing wall-sections 2, 3, and 4, which as represented, are square in outline and are separated at their adjacent edges a suitable distance to permit the folding of the sheet, as will hereinafter appear. The sheet is also provided along its median line with another row or set of similar packing wall-sections 5, 6, and 7, corresponding substantially in dimensions with the packing wall-sections 2, 3 and 4. The sections 5, 6, and 7 are arranged in alignment and are so disposed that the section 7 is at a distance remote from the edge 8 of the wrapping or inclosing sheet, for the purpose of providing the flap portion 9.

The flexible sheet is provided with creases 10, at opposite sides of the packing wall-sections 5 and 7, to facilitate folding the sheet to make a substantially square package.

The multilocular frame is composed of sheets 12 and 13, interlocking with sheets 14, 15 and 16, for the purpose of providing a large number of cells for receiving and con-

taining the bottles or other fragile vessels, articles or objects which are to be transported or packed away. The number of sheets composing the multilocular frame will vary according to the number of cells which are to be provided. In the example here illustrated, the multilocular frame comprises twelve cells, but the number of cells may be largely varied to suit the conditions required.

The packing wall-sections are each composed of two sheets of felt-paper containing between them parallel narrow strips 17, Fig. 2, of similar material slightly separated to form air spaces and thus promote the cushioning effect or quality of the sections. The felt-paper is composed of cotton and wool, the latter materially aiding to exclude frost and cold and to render the sections soft, flexible and sponge-like. The wall-sections constructed as described are firmly cemented throughout their length and breadth to the paper or other flexible wrapping or inclosing sheet, and are slightly separated at their adjacent edges to permit the sheet to be folded upon the multilocular frame into box form. The wall sections thicken and strengthen the flexible sheet and preserve the box-like configuration or shape of the package or packing box while they close the outermost cells of the multilocular frame and present soft, flexible and sponge-like surfaces to the bottles or other fragile vessels, articles or objects contained in such outermost cells. The packing wall-sections may, however, be otherwise constructed but it is desirable that they possess softness, flexibility, elasticity and a sponge-like nature for the purpose of enabling bottles and other fragile vessels to be safely transported or handled without danger of breaking, or damaging the same.

In preparing the package for transportation or other purpose, the multilocular frame is stood upright on the wall-section 6, which is near the center of the wrapping or inclosing sheet 1, the sheet is then folded so that the wall-section 5, stands perpendicular to close one side of the frame and the wall-section 3 lies horizontal to close the top side thereof. The wall-sections 2 and 4 are turned down at opposite sides of the frame and the wall-section 7 is turned to a vertical position to close the remaining side of the frame, the flap portion 9 of the wrapping or inclosing sheet being caused to extend over the wall sections 2, 3 and 4. The portions 18 and 19 of the wrapping or inclosing sheet are then turned up against the wall-sections 2 and 4, and the triangular portions 20 and 21 thus formed are turned toward each other, so that the whole presents the appearance represented by Fig. 4. The folded parts of the sheet may be cemented or otherwise secured, as for example by properly tying a string around the same.

The manner of folding the sheet above described is desirable and gives satisfactory results, but obviously the sheet may be other-

wise folded without affecting the spirit of my invention.

To provide a square package, the packing wall-sections are square in outline and are of uniform dimensions, and the two rows or sets each comprise three sections. I do not, however, confine myself to this particular shape of package, as it may be made of different form by properly shaping and locating the wall-sections.

I prefer to cement the wall sections to the flexible wrapping or inclosing sheet as this facilitates the manufacture of the article, but other means to secure the sections to the wrapping or inclosing sheet may be employed.

The multilocular frame composed of soft, flexible sheets interlocked as described, renders it possible for this frame to be collapsed into a substantially flat condition so that the parts comprising the package can be placed on the market in a flat condition and thus large quantities can be shipped or transported with economy in space.

The invention provides a very desirable package or packing box composed of a frame having many cells and a flexible wrapping or inclosing sheet having packing wall-sections so applied and disposed as to close in the outermost cells of the frame and produce a closed package.

The parts comprising the package or packing box can be manufactured very readily and with considerable economy, they can be conveniently applied, and they are susceptible of being placed on the market in a complete form adapted for immediate use in shipping or packing away bottles or any other fragile vessels, articles or objects.

Having thus described my invention, what I claim is—

1. A folding bottle package or packing box, consisting of a multilocular frame, and a wrapping or inclosing sheet having packing wall-sections secured thereto and constituting walls for all the sides of the multilocular frame when the latter is wrapped or inclosed in the sheet, substantially as described.

2. A folding bottle package or packing box, consisting of a multilocular frame, and a wrapping or inclosing sheet having cushioned wall sections cemented thereto and arranged to constitute walls for the several sides of the multilocular frame when the latter is wrapped or inclosed in the sheet, substantially as described.

3. The combination with a soft and flexible multilocular frame, of a flexible wrapping or inclosing sheet provided with separated packing wall sections located in two rows or sets at right angles to each other to constitute walls for the several sides of the frame and close the outermost cells thereof when said frame is wrapped or inclosed in the flexible sheet, substantially as described.

4. The combination with a multilocular frame composed of interlocking strips of flexible and elastic material, of a flexible wrap-

ping or inclosing sheet having a row or set of soft flexible packing wall-sections extending along one edge or end portion and another row or set of similar packing wall-sections along the median line of the sheet and terminating at a distance from the opposite edge or end thereof, said frame being adapted to be wrapped or inclosed in the sheet so that the soft flexible packing wall-sections thereon constitute walls for the several sides of the multilocular frame and close the outermost cells thereof, substantially as described.

5. The combination with a multilocular frame composed of soft flexible material, of a wrapping or inclosing sheet having a row or set of soft flexible packing wall sections along one edge or end portion and another row or set of like sections extending at right angles thereto, said wrapping or inclosing sheet having folded creases or lines and adapted to fold in against opposite wall-sections when

the sheet is wrapped round the multilocular frame, substantially as described.

6. The combination with a multilocular frame, of a wrapping or inclosing sheet having two rows or sets of packing wall-sections extending at right angles to each other to constitute walls for the several sides of the multilocular frame when the latter is wrapped or inclosed in the sheet, said sheet having attached thereto at one edge or end a flap portion 9 and creased portions 10 at opposite sides of one of the rows or sets of wall-sections, substantially as described.

In testimony whereof I have hereunto set my hand and affixed my seal in presence of two subscribing witnesses.

ALFRED H. MEECH. [L. s.]

Witnesses:

SANFORD W. SMITH,
WALLACE C. BEEBE.