

(No Model.)

2 Sheets—Sheet 1.

A. H. MEECH.
BOTTLE WRAPPER.

No. 495,422.

Patented Apr. 11, 1893.

Fig. 1.

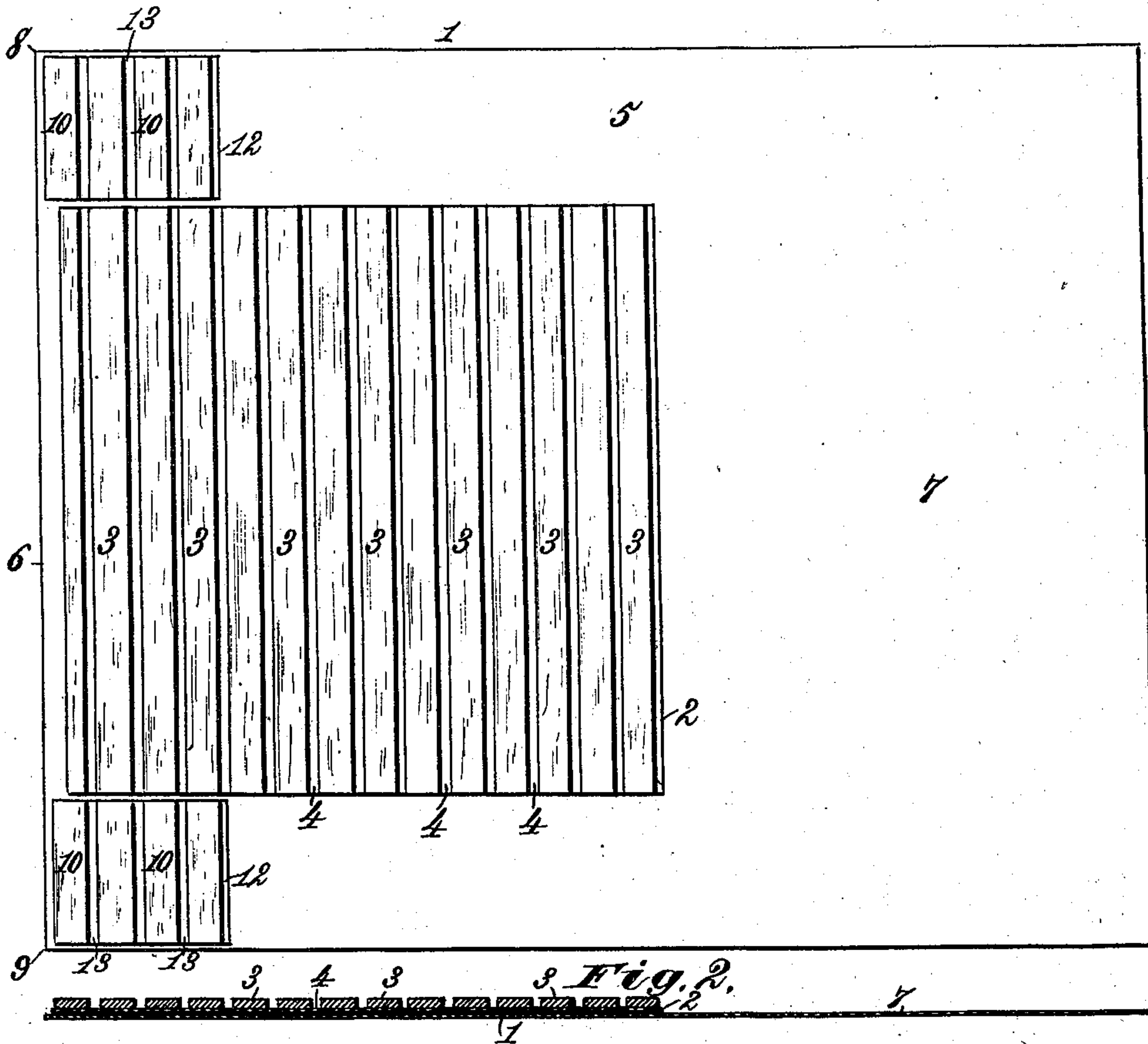
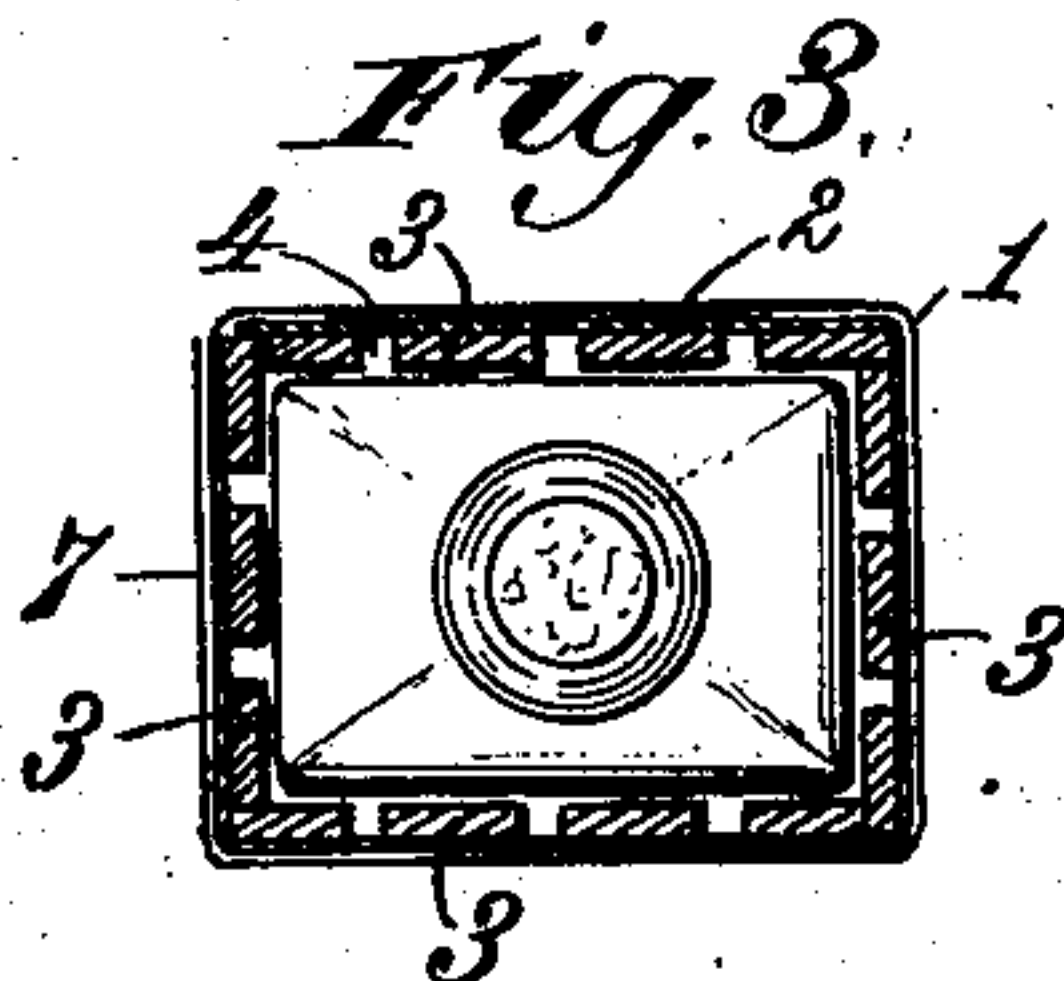


Fig. 2.



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By

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(No Model.)

2 Sheets—Sheet 2.

A. H. MEECH.
BOTTLE WRAPPER.

No. 495,422.

Patented Apr. 11, 1893.

Fig. 4.

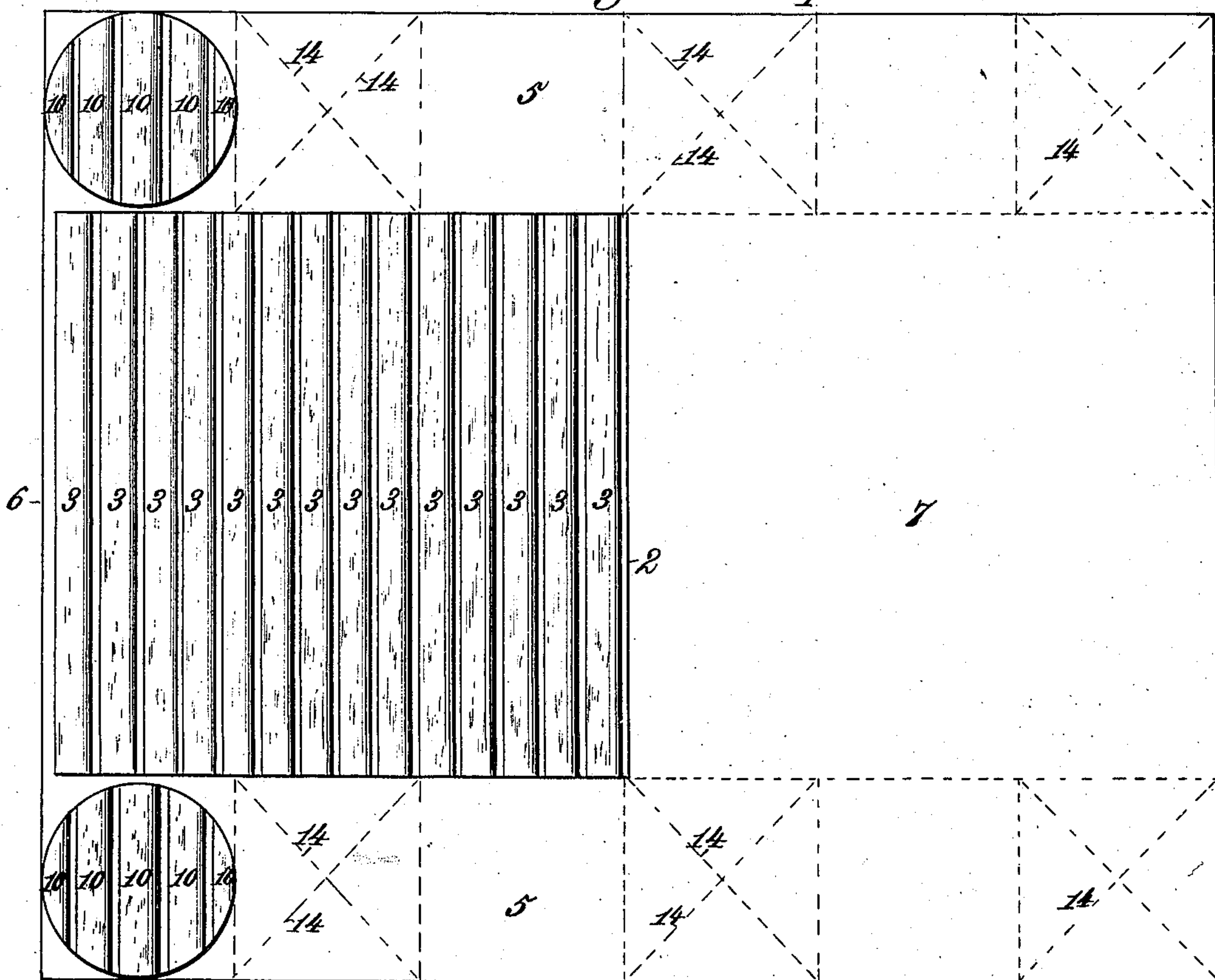


Fig. 5.

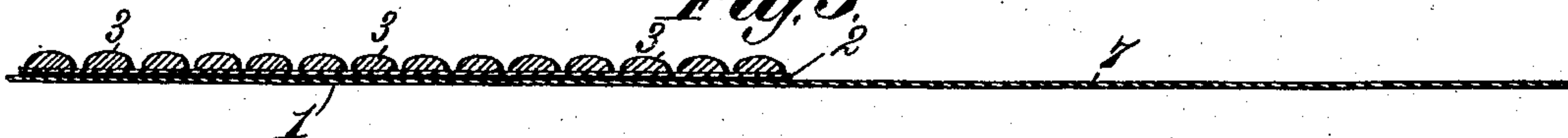


Fig. 6.

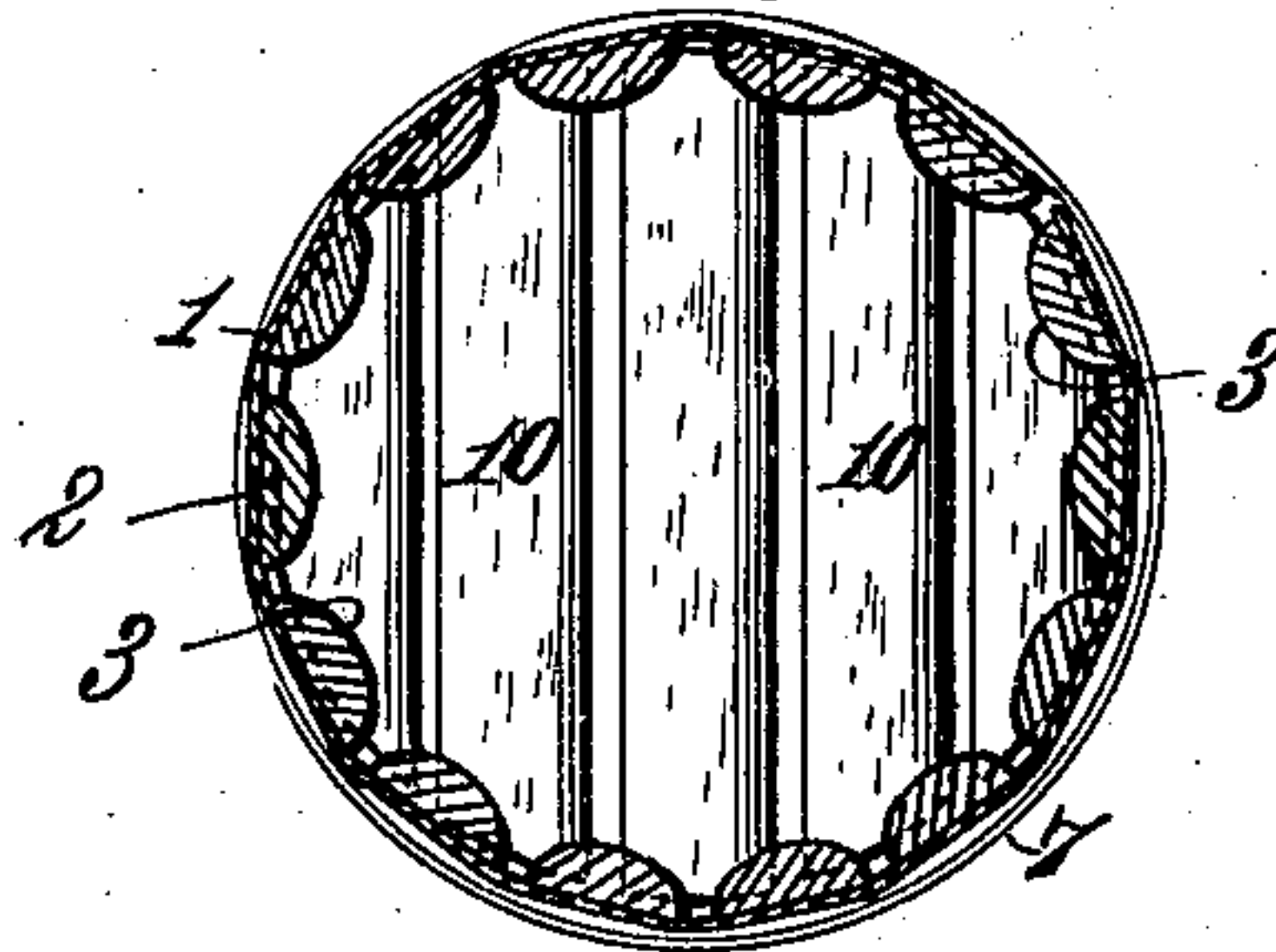
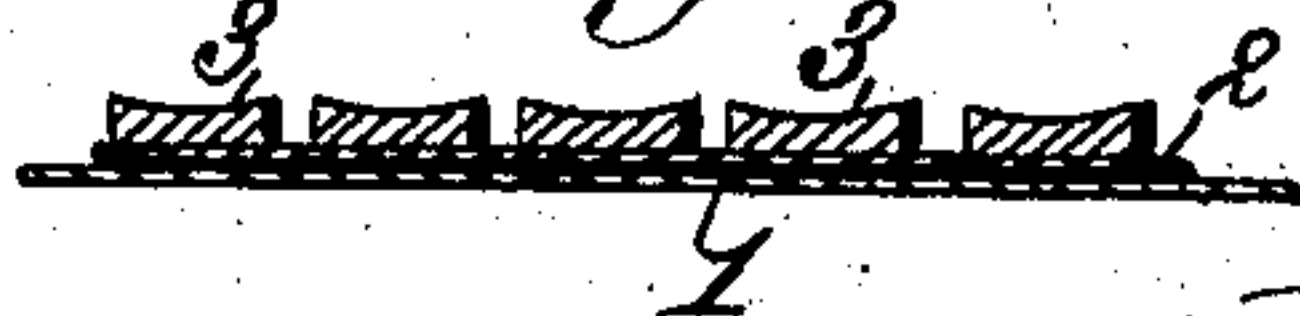


Fig. 7.



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UNITED STATES PATENT OFFICE.

ALFRED H. MEECH, OF CHATHAM, NEW YORK.

BOTTLE-WRAPPER.

SPECIFICATION forming part of Letters Patent No. 495,422, dated April 11, 1893.

Application filed May 24, 1892. Serial No. 434,180. (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-Wrappers, of which the following is a specification.

This invention has for its object to provide a novel, simple, and efficient bottle wrapper, or wrapper for packing bottles and other fragile vessels, articles or objects, which is flexible, pliable and possesses the characteristics of a cushion in that it is of a soft and sponge-like nature for safely transporting the articles, reducing or avoiding the danger of breaking, injuring or damaging the same while in transit on cars, vehicles, or otherwise, and effectually excluding light, heat, cold, frost, dust and dirt from the articles packed in the wrapper.

The invention consists in a cushion bottle-wrapper composed of an imperforate sheet of flexible material having secured thereupon a series of imperforate felt-paper strips of a length less than the width of the imperforate sheet, and cushion cover and bottom sections arranged at two corners of the imperforate sheet and composed of felt-paper strips secured to the sheet and separated from each other to form air cushion spaces.

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

Figure 1, is a plan view of a bottle wrapper constructed in accordance with my invention. Fig. 2, is a sectional view of the same. Fig. 3, is a sectional view showing the wrapper applied to a bottle. Fig. 4, is a plan view of a wrapper showing a modification of the invention. Fig. 5, is a sectional view of the same. Fig. 6, is a sectional view showing the wrapper formed into cylindrical shape to inclose a bottle or other article, and Fig. 7, is a detail sectional view showing a modified form of felt strip applied to the flexible sheet.

In order to enable those skilled in the art to make and use my invention I will now describe the same in detail, referring first to Figs. 1 and 2 of the drawings, wherein—

The numeral 1 indicates a flexible sheet composed of felt-paper, which sheet as here

shown, is rectangular in outline, but may be of any other shape suitable for the conditions required. To this sheet is cemented an imperforate base 2 of felt paper, having cemented thereupon a series of imperforate felt paper strips 3, arranged substantially parallel and slightly separated from each other to provide intervening air cushion spaces 4. The length of the felt paper strips 3 is less than the width of the outer flexible sheet 1 so that longitudinal margins 5 are provided at opposite ends of the strips. The imperforate felt paper base 2 extends from about the center of the flexible sheet 1 to one edge 6 thereof, so that the remaining portion 7 of the sheet 1 is left free to receive advertisements or cards on its outer surface and to be wrapped around and pasted as will hereinafter appear.

In the practical use of the wrapper above described the bottle or other fragile article is laid upon the parallel felt strips 3 in proximity to the edge 6 of the sheet 1, and then the article is rolled up and the portion 7 of the sheet 1 is cemented or otherwise secured and subsequently the marginal portions 5 are tucked down upon the upper and lower ends of the article to securely retain it in place.

In order to provide a cover and bottom wall sections for the bottle wrapper, I provide the sheet 1 at the two corner portions 8 and 9, with felt paper strips 10 cemented to a felt paper base 12, properly secured by adhesive material to the sheet 1. The felt paper strips 10 are slightly separated from each other to provide air cushion spaces 13 and since the felt paper strips 10 are arranged at opposite ends of the strips 3 in proximity to the edge 6 of the sheet 1, it will be obvious that the strips 10 can be turned inward to constitute a cover and a bottom wall for the package when a bottle or other article is wrapped up in the sheet 1 as before explained.

In Figs. 1 and 2, the felt paper strips are perfectly flat at their inner surfaces and consequently the wrapper is well adapted for inclosing angular or square bottles as represented by Fig. 3. The felt paper used for the base 2, and the strips 3 and 10, is composed of cotton and wool, the cotton serving to strengthen the fabric and the wool materially aiding to exclude heat and cold and rendering the fabric soft and sponge-like.

The peculiar construction described provides a wrapper which comprises the characteristics of a cushion and is soft, flexible, elastic and sponge-like so that the possibility of breaking, injuring or damaging a bottle or other fragile vessel or article is largely reduced if not entirely avoided under ordinary conditions. The imperforate felt paper base 2 is cemented throughout its entire extent directly to the inner surface of the flexible sheet 1 and consequently it is impossible for the imperforate felt paper base which carries the strips 3 to become disarranged or displaced from its proper relative position on the outer sheet, and likewise the felt paper bases 12 of the strips 10 which compose the cover and bottom wall sections are cemented throughout their extent to the outer sheet 1 for a similar purpose. By constructing the strips 3 of felt paper or similar material, and cementing them to a felt base so that such strips are slightly separated to form intervening air spaces, I materially enlarge the cushioning effect or quality of the bottle wrapper and render it very desirable and efficient in practicable use for transporting, shipping or handling bottles and similar fragile articles.

In the modification Figs. 4, 5 and 6, the construction is substantially the same as described with reference to Figs. 1 and 2, except that the modified construction is designed particularly for bottles or other fragile vessels or articles which are cylindrical and therefore the strips 3 are constructed with convex surfaces Figs. 5 and 6, or with concave surfaces Fig. 7. The strips 10 composing the cover and bottom wall sections are made of varying length so that when properly disposed they will correspond in outline to the circular shape of the cylindrical bottle or other fragile vessel or article. The felt paper strips 3 are cemented to the felt paper base 2 and the latter extends from about the center of the flexible sheet 1 to or near the edge 6 thereof. The marginal portions 5, however, at opposite ends of the strips 3 are provided at intervals with folding creases 14 to facilitate tucking or folding in the ends of the wrapper after the latter has been applied to a cylindrical bottle or other similar shaped article.

In all the constructions illustrated, the bottle wrapper is durable, flexible and elastic and possesses the characteristics of a cushion since it is soft and sponge-like in nature and possesses the air cushion spaces. These characteristics are largely due to constructing the wrapper of a felt-paper base to which is cemented a large number of narrow strips of felt paper arranged approximately parallel and separated at their edges to form air cushion spaces and permit the wrapper to be readily folded or wrapped around a cylindrical or angular or other shaped bottle, vessel or article.

The felt paper base, the felt paper strips and the outer flexible sheet are constructed

imperforate throughout their entire extent for the special purpose of excluding light, heat, cold, frost, dust and dirt from the bottles contained in the wrappers. This is an important and desirable feature of the cushion bottle wrapper constructed as described and renders it very advantageous in practicable use.

The felt paper strips secured to the felt paper base present soft, flexible and sponge-like surfaces to the bottles or other fragile vessels and since the wrapper possesses the characteristics of a cushion it will be obvious that very fragile bottles or similar vessels can be safely shipped, transported or handled without danger of breaking, damaging or injuring the same under ordinary conditions.

The flexible sheet 1 may be composed of manilla or other paper such as felt paper, or any other pliable fabric which will render the sheet susceptible of being rolled or wrapped around a bottle or other article and then secured in the manner hereinbefore described.

Having thus described my invention, what I claim is—

1. A cushion bottle wrapper composed of an imperforate sheet of flexible material having secured thereupon a series of imperforate felt paper strips of a length less than the width of the flexible sheet, and cover and bottom sections arranged at two corners of the flexible sheet and composed of felt paper strips secured to the sheet and separated from each other to form air cushion spaces said wrapper being flexible and elastic and possessing a soft and sponge-like nature, substantially as described.

2. A cushion bottle wrapper composed of an imperforate base cemented at one side to a flexible sheet of greater dimensions and having attached to the opposite side a series of imperforate strips of felt paper separated from each other to provide air cushion spaces, said wrapper being flexible and elastic and possessing a soft and sponge-like nature, substantially as described.

3. A cushion bottle wrapper composed of an imperforate felt paper base cemented at one side to a flexible sheet of greater dimensions and having cemented to the opposite side a series of imperforate felt paper strips separated from each other to provide air cushion spaces, substantially as described.

4. A cushion bottle wrapper composed of an imperforate felt paper base cemented throughout its extent to a flexible sheet of greater dimensions and having attached to the opposite side a series of imperforate felt paper strips separated from each other to provide air cushion spaces, and cover and bottom sections arranged at two corners of the flexible sheet and composed of felt paper strips secured to the sheet and separated from each other to form air cushion spaces, said wrapper being flexible and elastic and possessing a soft and sponge-like nature, substantially as described.

5 5. A cushion bottle wrapper composed of a flexible sheet of paper, an imperforate base cemented throughout its extent to the inner surface of the paper sheet and having secured to its inner surface a series of imperforate strips separated to provide air cushion spaces, said imperforate base and imperforate strips being flexible and elastic and possessing a soft and sponge-like nature for contact with the

bottle or other article inclosed by the wrapper, 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.