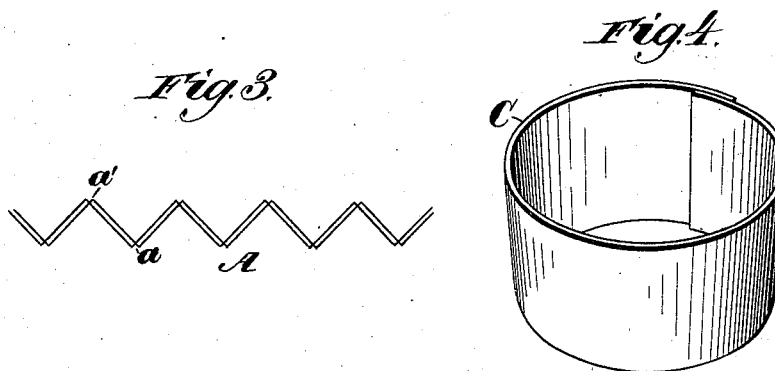
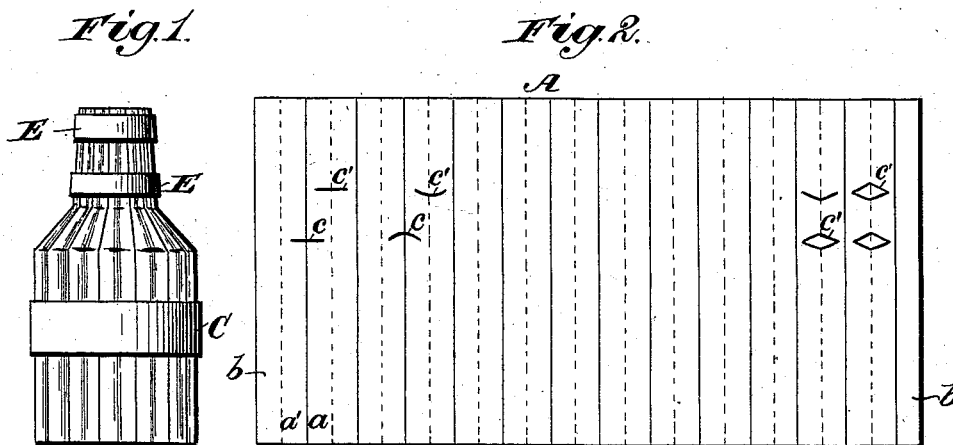


(No Model.)

T. F. W. SCHMIDT.
BOTTLE WRAPPER.

No. 524,219.

Patented Aug. 7, 1894.



Witnesses.
Robert Christ.

Dennis Sully.

Inventor:
Theodore F. W. Schmidt.
By *Wood & Borge*
Attys

UNITED STATES PATENT OFFICE.

THEODORE F. W. SCHMIDT, OF DAYTON, OHIO, ASSIGNOR TO THE DAYTON
PAPER NOVELTY COMPANY, OF SAME PLACE.

BOTTLE-WRAPPER.

SPECIFICATION forming part of Letters Patent No. 524,219, dated August 7, 1894.

Application filed December 18, 1893. Serial No. 493,907. (No model.)

To all whom it may concern:

Be it known that I, THEODORE F. W. SCHMIDT, a citizen of the United States, residing at Dayton, in the county of Montgomery and State of Ohio, have invented certain new and useful Improvements in Bottle-Wrappers, of which the following is a specification.

My invention relates to elastic wrappers for glass bottles or jars to prevent breakage in packing and transportation, and has for its object to adapt such wrappers to snugly fit the necks of the bottles and afford increased protection at this point.

To this end my invention consists in a wrapper constructed in the manner hereinafter fully described and definitely pointed out in the claims following the description, due reference being had to the accompanying drawings forming a part of this specification, wherein—

Figure 1 is a side elevation of my improved wrapper. Fig. 2 is a plan view of the blank from which the wrapper is made; Fig. 3 an end view of the same; and Fig. 4 is a perspective view of the wrapper encircling binder.

Referring to the drawings the letter A indicates a blank which is cut from straw-board of the desired dimensions and provided with a series of scored lines *a*, *a'*, and a series of straight or curved slits *c* are cut across the creases *a*, preferably in a downward direction; that is to say, the slits are cut in such manner as to extend downwardly when the blank is crimped, being of an inverted V-shape in the completed blank; or a series of slots or notches preferably diamond or oval-shaped, like either of these marked *c'* are cut across the creases *a'* the width of the shoulder of the bottle above the first series; these allow the wrapper to be drawn in on the shoulder of the bottle and then out and upward around the neck thereof, as shown in Fig. 1, when the wrapper conforms to the shape of the bottle, and is held in contact with the neck thereof by one or more binder hoops E.

It is obvious that when the neck of the bottle is formed by a gradual taper from the body to the mouth, or when a close fit is not required, only one series of these slits is necessary.

To form the wrapper the blank A is scored and cut as above described and is then formed into W-shaped crimps, as shown in Fig. 3.

The laps *b*, *b*, are secured together by glue, thus forming a cylinder provided with a contracted or reduced portion at one end, the inner periphery of which is composed of the continuous series of the inner edges of the crimps, and the outer periphery is formed in like manner of the outer edges of the series of crimps. After the wrapper has been placed upon the bottle a hoop or binder C, shown in Fig. 4, is slipped thereon and presses on the outer edges or projections of the crimped wrapper and draws the inner edges of the crimps firmly against the bottle incased therein.

An important advantage is obtained by the two series of slots or slits in the blank, causing the wrapper to be contracted to closely abut against the shoulder and neck of the bottle; the corrugations being thicker around the neck make the wrapper very strong, because the entire series of crimps is preserved intact in their abutment around the bottle.

I prefer to make these wrappers from straw-board, and to fold them double for shipping before being filled, the binders being also flattened.

Having described my invention, what I claim is—

1. A bottle wrapper consisting of the blank longitudinally creased and bent into an endless series of W-shaped crimps and rolled into a cylinder, said crimps extending lengthwise of the cylinder from end to end in straight rows, the said blank being provided with a series of slots opposite the shoulder of the bottle and extending transversely across the alternate longitudinal crimps, whereby the wrapper conforms to the shape of the bottle, in combination with the binder hoops C, E, substantially as described.

2. A wrapper composed of the W-shaped crimped blank A, provided with two series of slots, one opposite the shoulder, and the other opposite the base of the neck of the bottle, whereby the wrapper conforms to the shape of the bottle, in combination with the outside binder hoops C, E, substantially as described.

In testimony whereof I have hereunto set my hand.

THEODORE F. W. SCHMIDT.

Witnesses:

JOHN L. H. FRANK,
GEO. W. FRANK.