No. 707,183. Patented Aug. 19, 1902.

C. THIEBAUT.

PACKING CASE OR BOX.

(Application filed Mar. 26, 1902.)

(No Model.)

Fig. 1.



Fig. 2.

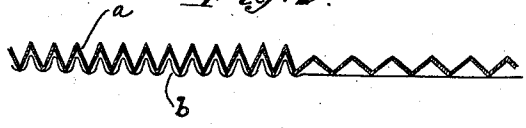
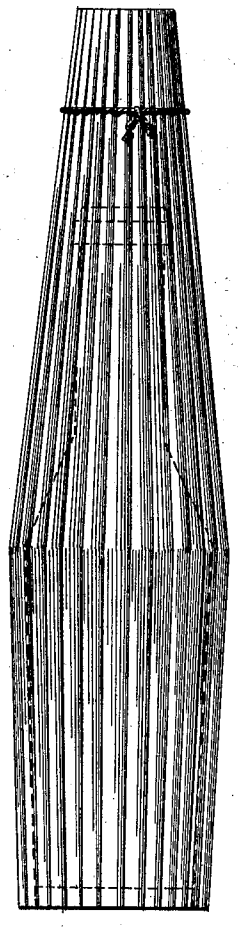


Fig. 3.



Fig. 4



Witnesses:
E. Bannuck
Jules L. Delauney

Inventor
Camille Thiebaut
per F. J. Singer
Attorney

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

CAMILLE THIEBAUT, OF ST. GERMAIN-EN-LAYE, FRANCE.

PACKING CASE OR BOX.

SPECIFICATION forming part of Letters Patent No. 707,183, dated August 19, 1902.

Application filed March 26, 1902. Serial No. 100,116. (No model.)

To all whom it may concern:

Be it known that I, CAMILLE THIEBAUT, a citizen of the French Republic, and a resident of St. Germain-en-Laye, Seine-et-Oise, France, have invented certain new and useful Improvements in Packing Cases or Boxes Made of Fluted or Ribbed Material, of which the following is a specification.

This invention relates to improvements in packing boxes or cases made of fluted or ribbed material. In articles of the kind now used for packing the cardboard is undulated by sending it through cylinders whereof the grooves and ribs are rounded at their bottoms and tops, respectively, on leaving which the cardboard has exactly the same sectional shape or profile as the cylinders. The ribs produced in the cardboard by this method (the bases of which are generally too far apart, while their tops are too round) are capable of offering but little resistance to vertical pressure, and are therefore unserviceable in practice.

In the accompanying drawings, Figure 1 shows the cardboard sheet folded. Figs. 2 and 3 indicate the cardboard with thin paper or cloth fixed to one or both of its sides, respectively. Fig. 4 illustrates the employment of the invention as a bottle casing or envelop. It exactly fits the outline of the bottle, as will be seen, and is simply tied around the top to keep it contracted.

Now a feature of my improvement is the use of cardboard, (indicated at *a*,) folded practically at acute angles, which method of folding enables it to resist pressure far better than the ribbed cardboard made and used for similar purposes hitherto, in addition to which it imparts to the packing a pleasing appearance of novelty and lightness, while at the same time it materially reduces the cost of its production.

To prevent the folds from becoming flattened or widened at their bases, I paste cardboard, paper, or any thin fabric (indicated at *b*) on one or both sides, taking care that the paste is applied to the apexes of the folds only, and I thus obtain a covered and ribbed compressible or extensible sheet of cardboard applicable not only to the purposes for which similar cardboard has been used, but also to the manufacture of bottle-envelops in substitution for the usual straw envelops, an object for which none of the ribbed cardboards hitherto existing have been utilized, because they lacked the required elasticity to fit the shape of the bottles or to take the proper gradually-tapering outline which such envelops should possess.

I may add that in producing the improved ribs I employ a machine constructed on a well-known principle, which is already in use in plaiting woven materials, but which has not yet been applied to the manufacture of ribbed cardboard, the only modification I have made in that machine consisting in constructing all its operative parts in a stronger and more substantial shape than they have been made hitherto. I may, however, employ any other suitable mechanism for the same purpose in accordance with the suggestions of experience.

Having now fully described my invention, what I claim, and desire to secure by Letters Patent, is—

1. A wrapper comprising a body of flexible material plaited and readily compressible at a right angle to the length of the plaits and a sheet of thin flexible fabric joined to the apexes of the plaits and foldable between the same.

2. A wrapper comprising a body acutely corrugated and readily compressible at a right angle to the corrugations, and sheets of thin flexible fabric joined to the apexes of the corrugations throughout the length thereof on both sides of the body and foldable between the same.

In testimony whereof I have hereunto set my hand in presence of two witnesses.

CAMILLE THIEBAUT.

Witnesses:

ADOLPHE STURM,

EDWARD P. MACLEAN.