Jan. 19, 1932. A. W. STEDMAN 1,842,299

PACKAGE

Filed Jan. 6, 1930

Fig. 1.

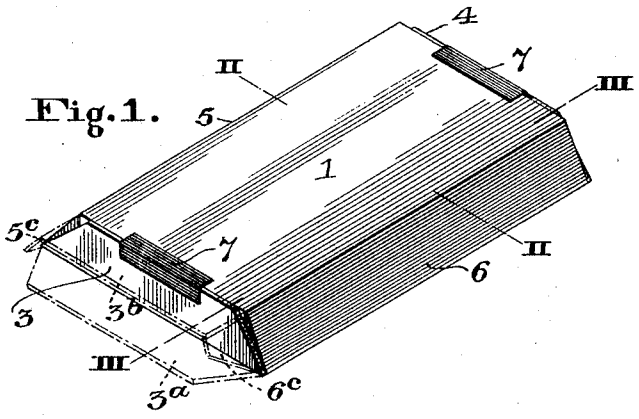


Fig. 2.

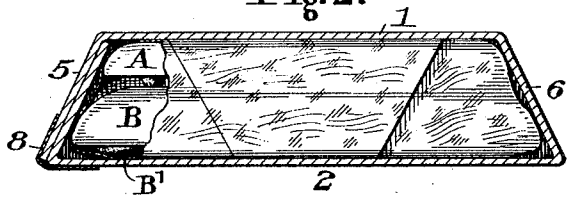


Fig. 3.

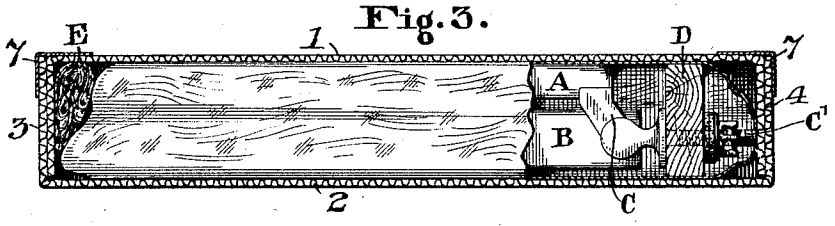
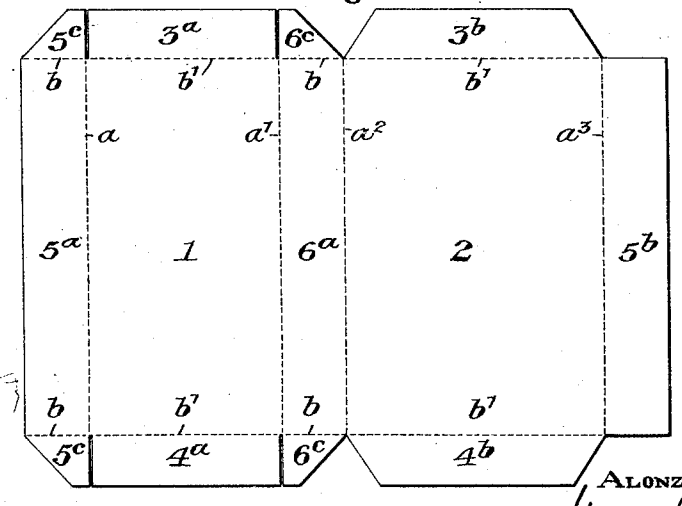


Fig. 4.



INVENTOR:
ALONZO W. STEDMAN
by Murray O. Boyer
Atty.

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UNITED STATES PATENT OFFICE

ALONZO W. STEDMAN, OF HADDONFIELD, NEW JERSEY, ASSIGNOR TO STANDARD TANK & SEAT CO., OF CAMDEN, NEW JERSEY, A CORPORATION OF NEW JERSEY

PACKAGE

Application filed January 6, 1930. Serial No. 418,718.

My invention relates to packages for articles of commerce sold as units, and one object of my invention is to provide an improved form of container package for the seats and covers of toilets sold in their assembled and hinged condition ready for application to the bowl.

A further object of my invention is to provide a simple and substantial covering or case for such articles especially designed to protect the same from damage during transit and at the same time furnish a package that may be conveniently stored upon the shelf of a dealer and serve to keep the articles in perfect condition prior to sale and installation.

These and other features of my invention are more fully described hereinafter; reference being had to the accompanying drawings, in which:

Figure 1 is a perspective view of the complete package forming the subject of my invention.

Figs. 2 and 3 are sectional views on the lines II—II and III—III, Fig. 1, respectively, on a larger scale, and

Fig. 4 is an extended view of a blank from which my improved package may be constructed.

The fittings and fixtures of bathrooms have changed in recent years and toilet seats and covers as now made have a smooth unbroken skin or coating of sheet enamel, usually of a cellulosic nature, which may consist of a relatively heavy surface film or layer of seamless celluloid or pyralin, finished in pure white and in various colors and color effects to harmonize with other fixtures of the modern bathroom. These fittings are sold today in the hinged condition as assembled units, independently of the bowl. While they are not fragile, their surface coating or finish is susceptible of being marred and scarred unless properly protected between the place of manufacture and the point of installation, and in addition there is danger of the hinged connection getting out of alignment unless the cover and seat are held firmly in their original assembled condition.

The usual dimensions and contour of these articles in assembled condition and preliminarily wrapped with a sheet of tissue or other suitable covering presents an object in which the seat portion is somewhat larger than the cover in both directions, but more particularly the minor axis of the completely assembled article. The separate sections are hinged together at one end, and at this end there is less difference between the dimensions of the respective parts in their superposed relation than at the other end, where the relation of cover to seat is substantially the same as at the sides; that is to say, the cover terminates a slight distance from the edge of the seat at the front and sides. And this is true whether the seat is of the usual continuous type or of the type wherein the front portion is omitted.

In carrying out my invention in the preparation of a package containing the assembled cover and seat, indicated at A and B, these parts are connected together by the double hinge structure C of usual type including two bolts C′ which are subsequently employed to attach the combined fixture or structure to the bowl. In assembling the complete structure in package form these bolts may be attached to a strip of wood D, relatively heavy, and this strip of wood occupies the position illustrated in Fig. 3 when the package is completely made up; the ends of the bolts lying substantially in contact with one end of the wrapping shell or container while the dimensions of the wooden strip in the position it occupies in the package is substantially the distance between the upper and lower broad walls of the container in one direction with a length substantially equal to the width of the narrower wall of the container. The presence of this wooden strip adds stiffness to the final package as it substantially fills the same laterally thereof.

As the superficial cross-sectional area of the combined seat and cover in assembled condition is less across the top than across the under side of the preliminary package, as indicated in Fig. 2, with a similar superficial contour at the front, as clearly indi-

cated at the left of Fig. 2, it follows that a shell or container that will neatly receive the assembly of cover and seat may have the beveled or diagonally arranged walls illustrated in Figs. 1 and 2. In addition, the body of the blank which comprises the container forming my improved package is very conveniently secured together in final form at one of the beveled sides. The duplex wall of such side so formed may be held in place by a pasted strip.

As illustrated in the drawings, my improved package comprises a container of suitable material, preferably corrugated board consisting of superposed sheets of paper in parallel relation with a core of corrugated paper; such material providing a stiff wall combining lightness and resistance to rupture. My improved package presents relatively broad surfaces 1 and 2, which are arranged substantially in parallel relation; ends 3 and 4 substantially at right angles to the broad surfaces 1 and 2, and made up of a plurality of plies of the material constituting the container, and sides 5 and 6 which are beveled or diagonally inclined; the relation of such sides to the broad surfaces of the package being such that while the latter are of substantially the same length, they are of different width, and the cross sectional contour of the package, as illustrated in Fig. 2 is substantially that of a truncated cone.

The beveled walls or sides of the package container conform to the angle including the sides of the cover and seat, and closely contact with the same as clearly shown in Fig. 2. This arrangement insures that the sides or side edges of the seat and cover will be held tightly in their proper relative position between the side walls 5 and 6 of the package container, thereby preventing movement of these parts relatively to each other and keeping the hinged connection in proper condition and alignment.

The end of the package at which the front end of the assembled seat and cover structure is positioned may have the relatively wedge-shaped space formed between such front end and the end wall 3 filled with a self-contained pad of packing material indicated at E, which may consist of a body of excelsior in a suitable wrapper of paper or the like. Any other form of packing pad may be employed at this point without departing from my invention.

The presence of the wooden cross bar D and the hinge bolts C′ which pass through the same and lie substantially in engagement with one end wall together with the presence of the pad of packing material E at the opposite end of the package assist in keeping the enclosed parts in assembled condition.

The usual rubber pads B′ carried by the under side of the seat portion serve to space the latter from the wall of the package container and the position of the wooden cross bar, to which the bolts of the hinge connection are secured, with reference to the seat may be such as to maintain the underside of the seat substantially parallel with the wall of the package container, as indicated in Figs. 2 and 3.

The blank from which my improved container package may be made may have the outline or contour indicated in Fig. 4. The beveled sides of the package are made up of the parts 5^a, 5^b and 6^a, and these parts are formed by bending the blank on the lines a, a', a^2 and a^3. The side parts 5^a and 6^a have terminal tabs 5^c and 6^c which may be bent on the lines b, and these tabs are first folded into the container when forming the end closures. The end parts or members 3^a and 3^b and 4^a and 4^b are bent on the lines b' and placed in overlapping relation when forming the end walls of the package container; overlying the in-folded tabs 5^c and 6^c, and when they are placed in proper position relatively to the filled package, with the members 3^b and 4^b in the outer position, they may be held down by the pasted strips 7. A similar strip, indicated at 8, Fig. 2, serves to hold the duplex side members 5^a and 5^b making up the wall 5, in place. Additionally, an interposed layer of adhesive may be placed between these latter parts, if desired.

While I prefer to construct my improved package in the manner indicated and from a blank of substantially the shape and type illustrated in Fig. 4, it will be understood that such package may be produced from a plurality of sections. It will also be understood that either form of package may be assembled with a beveled side in open condition before the article to be contained therein is inserted, without departing from my invention. When the article is inserted such side wall, made up of the overlapping plies 5^a and 6^a for instance, may be closed and secured in the manner indicated. It will also be understood that while my improved package has been particularly designed for the covers and seats of toilets in assembled condition, it is available for the packaging of other articles involving related parts connected together in unit relation where it is desired to provide a compact, closely fitting container capable of supporting the enclosed parts against damage or displacement.

I claim:

1. A package for a toilet seat and cover in assembled condition including a cross-piece to which the hinged connections thereof are secured, comprising a casing made of a sheet of suitable material scored and bent to present relatively broad faces in parallel relation with end walls substantially at right angles to the major axis of the package and side walls diagonally arranged

between said broad faces; the several walls lying in nominal contact with the edges of the seat and cover in assembled relation and said cross-piece serving as a filler member between the side walls of the casing; said end walls comprising a plurality of plies of the casing in overlapped relation, and fastening means connecting said end walls and one of the broad faces of the package for securing said end walls in position and closing the package.

2. A package for a toilet seat and cover in assembled condition including a cross-piece to which the hinged connections thereof are secured, comprising a casing made of a sheet of self-contained cushioning material scored and bent to present relatively broad faces in parallel relation and of substantially the same length but differing in width, with integral end walls of a plurality of plies of material arranged substantially at right angles to the major axis of the package and side walls diagonally arranged between said broad faces; the several walls lying in nominal contact with the edges of a wrapped seat and cover and the side walls engaging the ends of said cross-piece which serves as a filler member when in assembled relation, and fastening means connecting said end walls and the narrower broad face of the package for securing said end walls in position and closing the package.

3. A package for a toilet seat and cover in assembled condition including a cross-piece to which the hinged connections therefor are secured, comprising a shell or casing made of a single sheet of suitable material scored and bent to present relatively broad faces in parallel relation, with end walls substantially at right angles to the major axis of the package and side walls diagonally arranged between said broad faces; the several walls lying in nominal contact with the edges of the seat and cover when in assembled relation; said cross-piece serving as a filler member between the side walls of the casing, and fastening strips connected to said end walls and the narrower broad face of the package for securing said end walls in position and closing the package.

4. A package for a toilet seat and cover including the hinged connection therefor, and a cross-piece to which said hinged connection is secured, comprising a shell or casing made of a single sheet of suitable material scored and bent to present relatively broad faces in parallel relation and of substantially the same length but differing in width, with end walls substantially at right angles to the major axis of the package and side walls diagonally arranged between said broad faces; the several walls lying in nominal contact with the edges of the seat and cover when in assembled relation; said cross-piece attached to the hinged connection serving as a filler member between the side walls of the casing and said end walls comprising a plurality of plies of the shell or casing in overlapped relation, and fastening strips connected to said end walls and the narrower broad face of the package for securing said end walls in position and closing the package.

5. A package comprising a toilet seat and cover in assembled condition including the hinged connection therefor, a cross-piece to which said hinged connection is secured, a shell or casing of stiff material presenting relatively broad faces with end walls substantially at right angles to the major axis of the package and beveled side walls diagonally arranged between said broad faces; said side walls conforming to the angle which includes the side edges of the seat and cover when in assembled condition and serving to hold the same against lateral displacement; said cross-piece serving as a filler element between the side walls of the package.

6. A package comprising a toilet seat and cover held in assembled condition including the hinged connection therefor, a cross-piece fixed to said hinged connection, a shell or casing of corrugated board having broad faces in parallel relation with end walls substantially at right angles to the major axis of the package and beveled side walls diagonally arranged between said broad faces enclosing said seat and cover; said beveled side walls lying in supporting contact with the side edges of the seat and cover when held in assembled condition, and supplemental filler means disposed adjacent to one end wall of said shell or casing; said cross-piece fixed to the hinged connection and holding the seat and cover in assembled condition serving as a spacer between the side walls at the opposite end of the package.

In witness whereof I have signed this specification.

ALONZO W. STEDMAN.