(No Model.)

G. W. BRADLEY.

BUTTER PACKAGE.

No. 389,285. Patented Sept. 11, 1888.

FIG. 1.

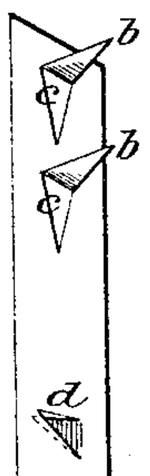


FIG. 3.

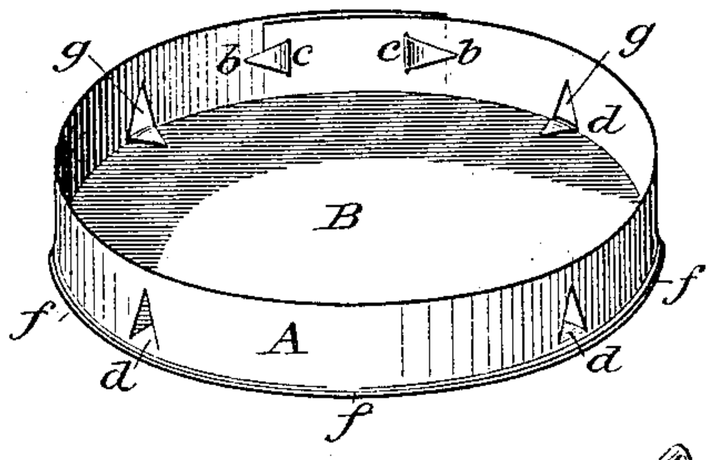
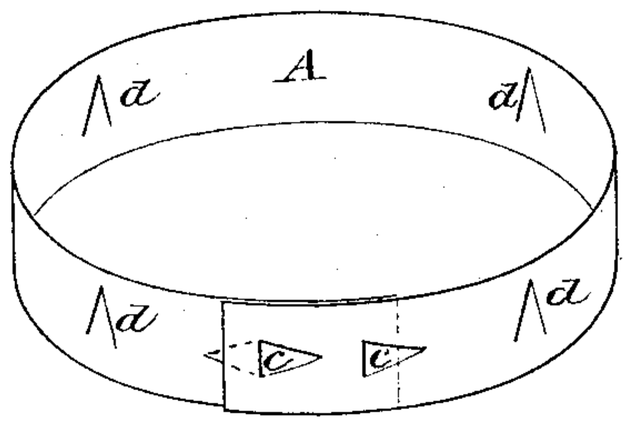


FIG. 2.



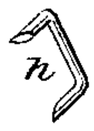


FIG. 4

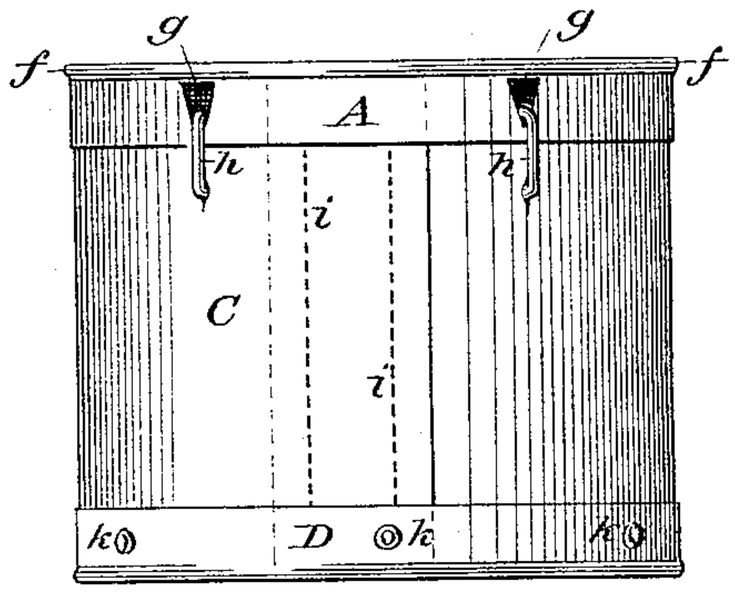
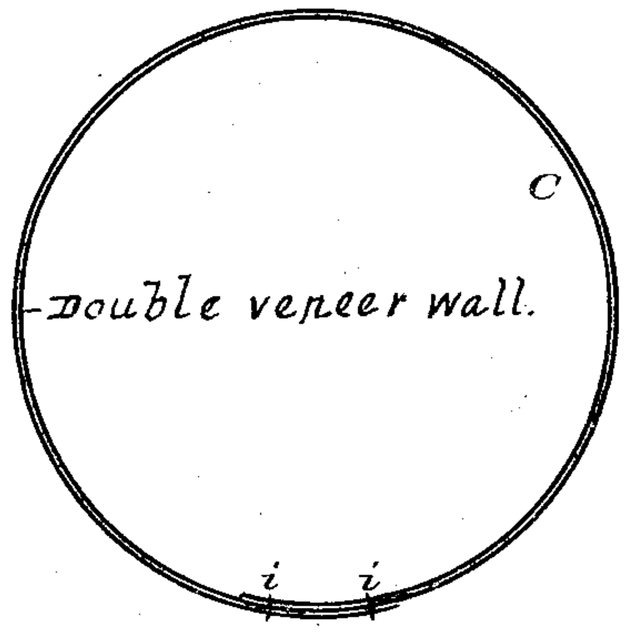


FIG. 5.



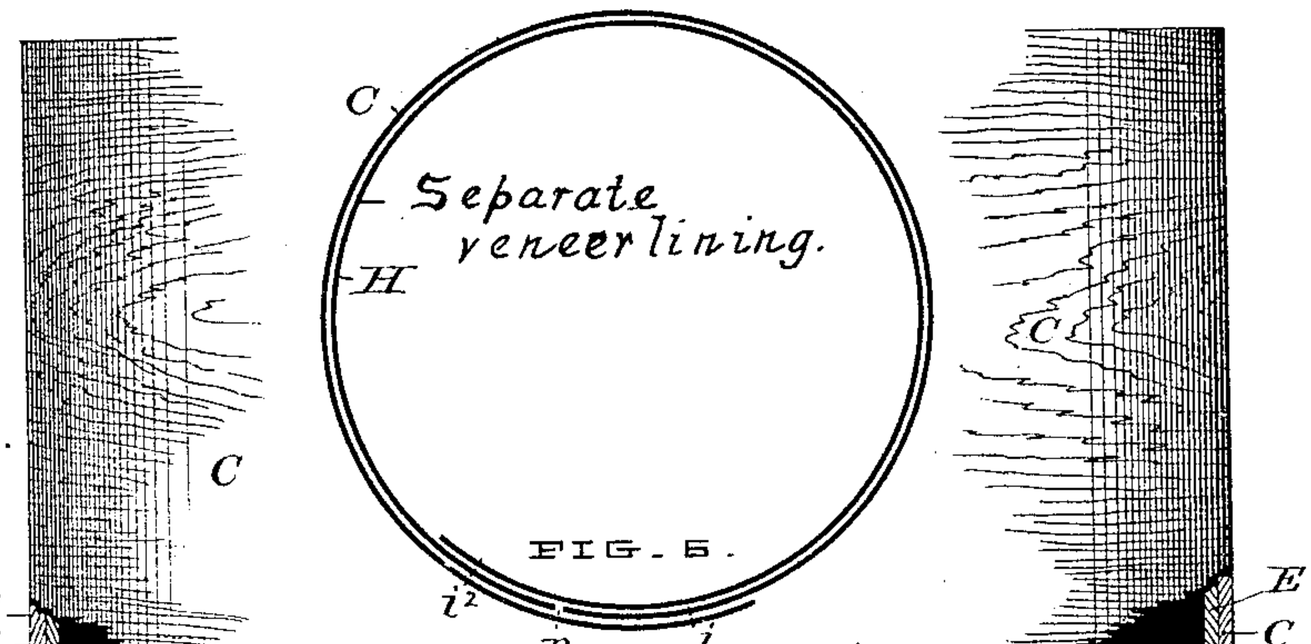


FIG. 6.

FIG. 7

FIG. 8.

WITNESSES:

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by Franklin Scott, Atty.

UNITED STATES PATENT OFFICE.

GILBERT W. BRADLEY, OF SUNDERLAND, VERMONT.

BUTTER-PACKAGE.

SPECIFICATION forming part of Letters Patent No. 389,285, dated September 11, 1888.

Application filed May 10, 1887. Serial No. 237,701. (No model.)

To all whom it may concern:

Be it known that I, GILBERT W. BRADLEY, of the town of Sunderland, in the county of Bennington and State of Vermont, have invented certain Improvements in Butter-Packages, of which the following description, in connection with the accompanying single sheet of drawings, constitutes a specification.

The invention relates to improvements in the construction of cylindrical and other shaped packages wherein thin scale board or wood veneer is used for tops, bottoms, and walls of the structure and the several parts are held together by metallic bands.

The invention is fully elucidated in the drawings, in which—

Figure 1 shows a thin strip of sheet metal for a corner-band before it is bent. Fig. 2 shows the same bent and the ends lapped and fastened. Fig. 3 shows a band for a cover after it has been flanged, the head inserted, and the retaining-spurs closed down thereon to confine the same in place. Fig. 4 is an external view of a closed package with the cover confined by the closing-hooks. Fig. 5 is a plan view of a convolute rim of a cylindrical package. Fig. 6 is a similar view of a cylindrical body with a lining. Fig. 7 is a partially external and partially sectional view of the bottom part of a package, showing a band riveted to the body. Fig. 8 is a similar view showing a band attached to the box by means of retaining-spurs.

The wooden parts of my package consist of a thin hoop or body part of thin veneer bent around across the grain, with overlapped ends fastened, (preferably by sewing,) and two thin wooden disks for the bottom and cover. Some of these packages are lined, while others are not, and, as my improvements in the bands are equally applicable to both varieties, I have shown both styles in the drawings.

The metallic portions of my package consist of two tin or other metallic bands, one for the cover and one for the bottom of the box, and either or both rivets or staples for confining the bands in position, according to the character of the duty required of them.

My bands are made from narrow strips of tin or other plate cut to the proper width and length and having tongues or spurs, like *b b d d*, Fig. 1, struck up out of the body of the strip. One end of each band is pierced with two slots, *e e*, for the reception of spurs *b b*. Then the band is bent around in cylindrical form, so that spurs *b b* may enter slots *e e*. This done, and the spurs being entered through said slots, they are bent down in opposite directions, as indicated in Fig. 2. Then the band goes to a creasing or flanging machine and one edge thereof creased and a flange turned thereon of shape shown at *m*, Figs. 7 and 8. This done, a wooden disk, B, is sprung into the crease so formed, and the spurs *d d d d* are bent down internally, as seen in Fig. 3, and thus confine the head in the crease in the most positive way. In this way the cover is formed. It will be seen that after the spurs are bent down triangular openings *g g g g* are left in the band, which are afterward utilized, in connection with staples *h h h*, to fasten the cover onto the body of the box, as shown in Fig. 4.

The bottom band is lapped and fastened with spurs *b b* and slots *e e* in the same way as the band of the cover, and it may be attached to the body of the box either by rivets, as in Fig. 7, or by spurs, as in Fig. 8.

It will be observed that the diameter of the bottom is a little larger than that of the hoop or body C. Thus the bottom edge of the hoop fits squarely down onto the top side of the bottom disk. The band is then fastened to the body C either by rivets, as at K, or by spurs *l l*, which, being struck up out of the metal of the band, have their points bent inwardly at right angles about midway from the root of the spur, and are then bent outwardly at the root, so as to draw the point back through the spur-opening of the band to allow the band to slip onto the body of the box. When so slipped on, the points of spurs *l l* are pressed through the veneer of the body and the points are bent down on the inside and clinched, as shown in Fig. 8. By either of these means the bottom and body part are securely bound together by a substantial fastening which is not easily ruptured without destroying the box itself.

For many purposes a box is required with a lining, and sometimes greater stiffness than can be obtained by the use of a single hoop or body part is desirable. To meet these requirements I have made two modifications of substantially the same provision. One is seen

in Fig. 5 and the other in Fig. 6. When it is immaterial about the heads of rivets or the clinching-points of spurs *l l* coming in contact with the contents of the package, and at the same time extra stiffness or rigidity of structure is wanted, I roll up two or more convolutions of thin veneer, as in Fig. 5, and fasten the same by stitching across the overlapped ends, as at *i i*, Figs. 4 and 5. I then attach the band D by either rivets or spurs, according as the thickness of the walls of the package may determine; but for many purposes it is inexpedient to have edible substances—like fine butter—come in contact with the rivets or spur-points. In such cases I insert a lining, as shown in Fig. 6, the joint between the box and lining being shown at *p*. With this construction I fasten the band by the rivets or spurs to the outer hoop alone and subsequently insert the lining, which may or may not be fastened to the outer hoop or body.

I therefore claim as my invention—

1. As an improved cover for cylindrical butter-packages, a thin wooden disk held in a flute or crease in a flanged metallic band by means of spurs which are struck up out of the material of the cylindrical portion of such band and are bent down internally against the under side of the disk, substantially in the manner described and set forth.

2. A metallic band for use in the manufacture of cylindrical packages or boxes wherein a bent hoop is used for the body or walls and thin disks are used for tops and bottoms or for covers thereof, provided with longitudinal struck-up spurs at one end of such band and perforations at the opposite end thereof as means for uniting the ends of such band, and having a crease and flange to receive the edge of the disk, and a series of transverse struck-up spurs adapted to be either bent down over the edge of the disk to confine the same within the band or to have their points bent and driven through the body of the package as a provision for attaching the band either to the cover-disk or to the hoop of the box, as described and set forth.

3. A metallic band for use in the manufacture of packages of the character described, provided with an annular crease for the reception of the edge of the disk-head and a series of transverse struck-up points or spurs, whereby the band may be connected with said disk to form a cover for a box or may be used as a hoop to confine the bottom to the body of the box itself, substantially as described, and for the purposes set forth.

4. A cylindrical package having a body part made of thin bent veneer, and a cover consisting of a thin disk held in a flanged and creased metallic band by means of struck-up spurs bent down, as shown, in combination with a hook or staple, *h*, which catches into the gap left after the bending down of the spur by one leg of the staple and penetrates the wall of the box with the other leg, substantially as described, and for the purpose set forth.

5. A butter-package consisting of a bent veneer body having a bottom held by a creased and flanged metallic band, the body and band being united by rivets and having a bent veneer lining, in combination with a cover consisting of a thin disk held in a flanged creased metallic band by means of spurs struck out of the material of the band and folded down upon the inner surface of the said disk, substantially in the manner described, and for the purpose set forth.

6. A metallic band for attaching the disk-bottom of a cylindrical bent veneer box to the body thereof, provided with an annular crease to receive the edge of the disk-bottom, having transverse struck-up points or spurs, the points of which may be bent at right angles with the roots of the spurs for the purpose of forcing them through the walls of the box, substantially as described, and for the purposes specified.

In testimony whereof I have hereto subscribed my name at, Sunderland, in the State of Vermont, this 6th day of April, A. D. 1887.

GILBERT W. BRADLEY.

In presence of—

FRANKLIN SCOTT,

E. H. WORTHINGTON.