J. M. HOTHERSALL.

BOX.

APPLICATION FILED JULY 31, 1915.

1,380,908. Patented June 7, 1921.

Fig. 1

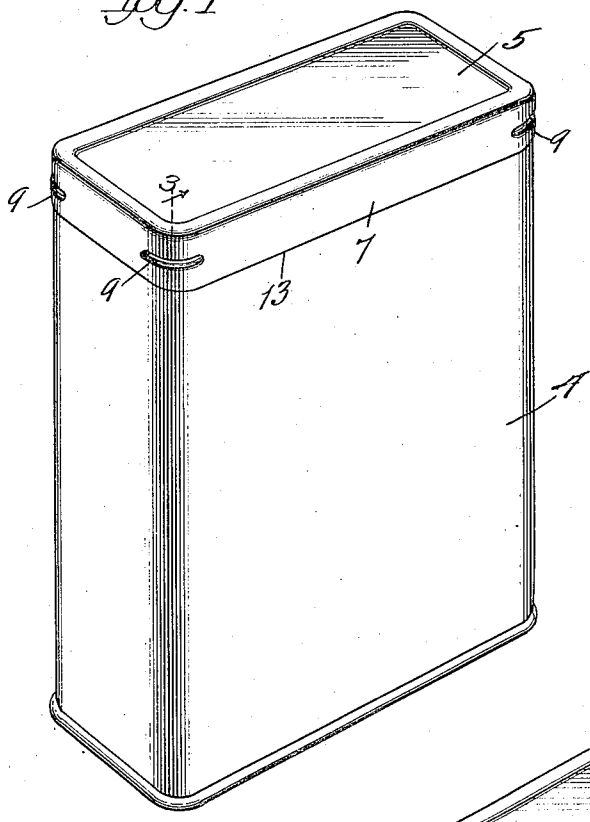


Fig. 2

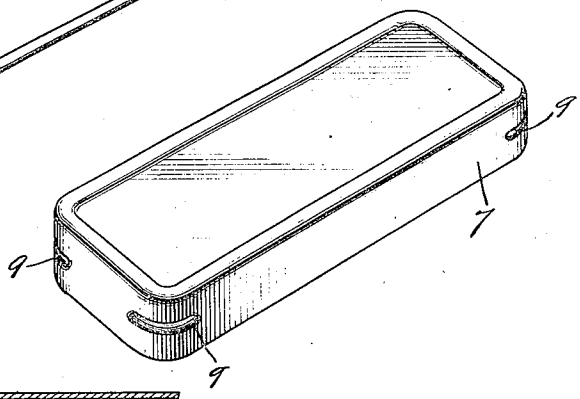
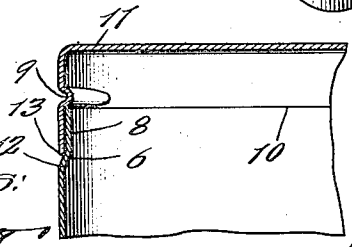


Fig. 3



Witnesses:

H. C. Barrett

J. H. Carpenter

Inventor:

John M. Hothersall

By Myers, Clay, Evarts, Coleck & Clarke Attys.

UNITED STATES PATENT OFFICE.

JOHN M. HOTHERSALL, OF BROOKLYN, NEW YORK, ASSIGNOR TO AMERICAN CAN COMPANY, OF NEW YORK, N. Y., A CORPORATION OF NEW JERSEY.

BOX.

1,380,908. Specification of Letters Patent. Patented June 7, 1921.

Application filed July 31, 1915. Serial No. 42,898.

To all whom it may concern:

Be it known that I, JOHN M. HOTHERSALL, a citizen of the United States, residing in Brooklyn, in the county of Kings and State of New York, have invented a new and useful Improvement in Boxes, of which the following is a specification.

This invention relates in general to boxes and has more particular reference to sheet metal boxes provided with a slip or telescoping cover.

A principal object of the invention is the provision of a slip cover box, the body of which may have only a slight necking-in, without danger of the flange or flanges of the cover being forced past the shoulder provided in necking-in the cover into binding contact.

A further object of the invention is the provision of a box having a slip cover of depth greater than the intended telescoping engagement between it and the box body, and this without providing a bead or pronounced projection about the body near its open end to limit the movement of the cover into closed position.

A still further object of the invention is the provision of a box having a slip cover, the flange of which will lie substantially in the plane of the main part of the body of the box, and this without danger of binding between the body and cover.

Other objects and advantages of the invention will be apparent as it is better understood from the following description when considered in connection with the accompanying drawing illustrating a preferred embodiment thereof.

Referring to the drawing.

Figure 1 is a perspective view of a box embodying my invention;

Fig. 2 is a similar view of the cover removed; and

Fig. 3 is a partial section on the broken line 3 of Fig. 1.

For the purpose of illustrating my invention I have shown it embodied in a box body 4 over an open end of which fits a slip cover 5. In the present instance the box body 4 is of rectangular cross-section and may be of any usual or preferred construction. The upper end of this body, which is the open end, is necked-in at 6 only slightly and preferably a distance equal to the thickness of the metal forming the cover. The cover 5 is provided with a downwardly extending peripheral flange 7 adapted to slide or slip over the open end of the body to a depth equal to the necked-in portion 8 of the body. At the corners this flange is depressed at 9 a distance above the lower edge of the flange appropriate to bring it into engagement with the upper edge 10 of the body when the cover has been slipped to fully closed position. The depressions 9 form inwardly extending shoulders 11 which, with the slight shoulder 12 formed by necking-in the body, prevent too great closing movement of the cover through engagement respectively with the edge 10 of the body and the edge 13 of the flange on the cover. In order to bring the outer faces of the body and the cover flange flush with each other the necking-in must be very slight, only equal to the thickness of the metal, and this would allow the cover flange to wedge almost irremovably on the shoulder of the neck; but this wedging is prevented by the depressions 9.

It will be manifest that this arrangement disposes the outer surfaces of the main part of the body and the corresponding outer surfaces of the parts of the flange 7 in substantially common unbroken planes, without the necessity of the provision of any outwardly extending shoulders from the body for limiting the cover movement. This permits a label to fit over the body and onto the flange of the cover and yet present a continuous smooth surface on each face of the body.

It is thought that the invention and many of its attendant advantages will be understood from the foregoing without further description, and it will be obvious that various changes may be made, as for example, the invention may well be incorporated in boxes of varying form and construction without departing from the spirit and scope of the invention or sacrificing any of its material advantages, the form hereinbefore described being merely a preferred embodiment thereof.

I claim:

1. A box comprising a rectangular body formed with rounded corners, and a similarly shaped and rounded flanged slip cover, the body being necked-in for a slight distance substantially equal to the thickness of the cover flange; the cover flange having short inward depressions in its rounded corners, where the flange is of maximum stiffness,

for abutting against the top edge of the body walls at the corners only.

2. A box comprising a rectangular body and a flanged slip cover, the body being necked-in for a slight distance equal to the thickness of the metal of the cover flange, and the cover flange being formed at its corners with depressions 9 forming abrupt non-wedging stop shoulders each of which engages on two sides of the body and prevents the corners of the flange from wedging on the slight shoulder of said necked-in part and maintains the cover flange from distortion.

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

JOHN M. HOTHERSALL.

Witnesses:
W. D. FOSTER,
ADOLPH E. J. HOERL.