Oct. 1, 1929. A. R. HOEFT 1,729,942

SHIPPING BOX

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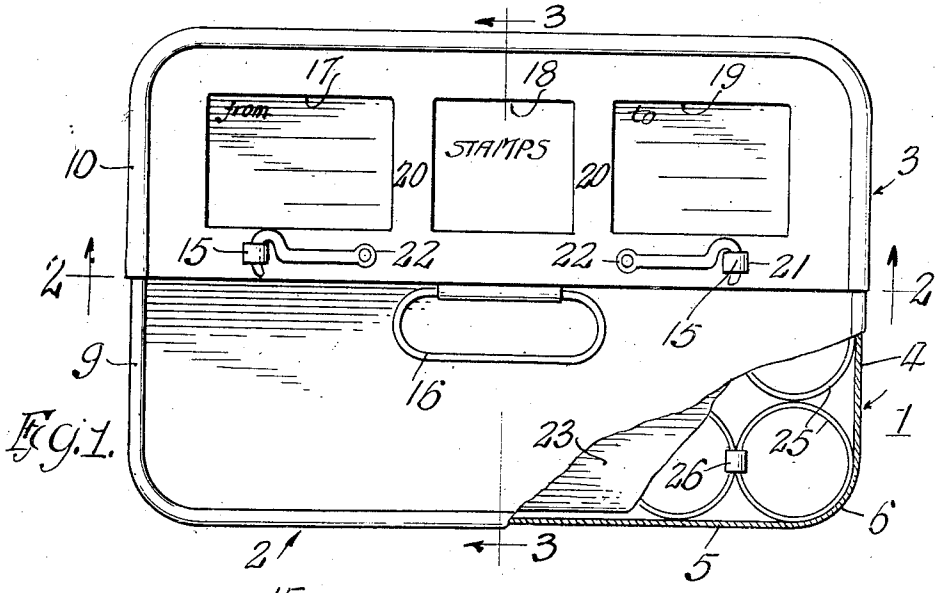


Fig. 1.

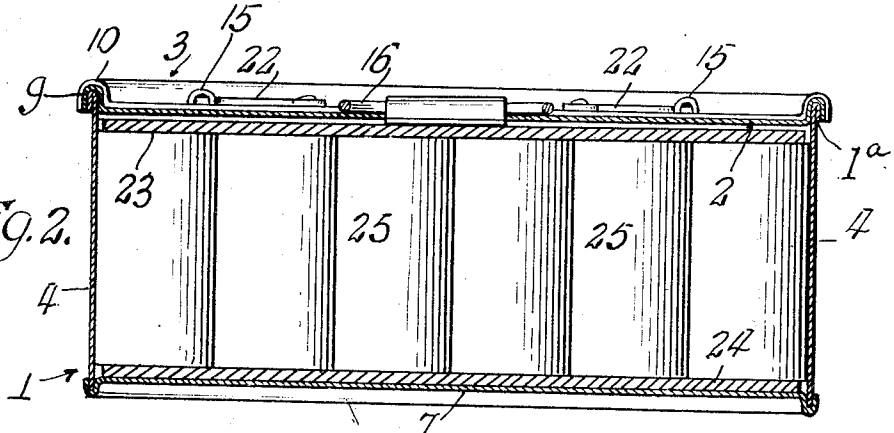


Fig. 2.

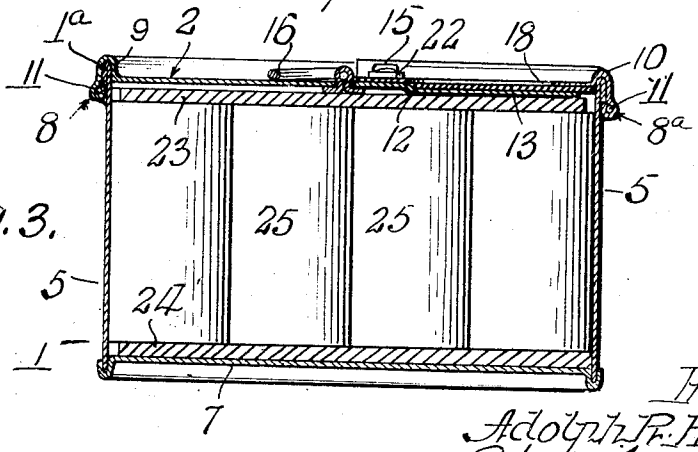


Fig. 3.

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Fig. 4.

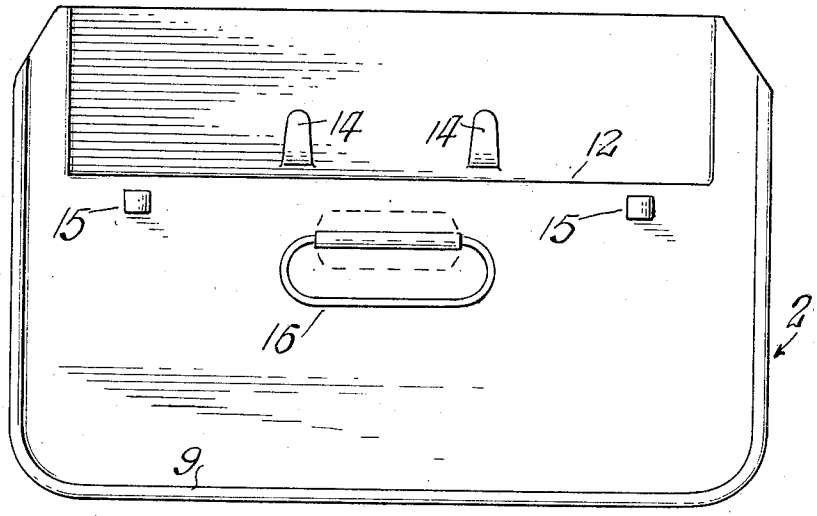
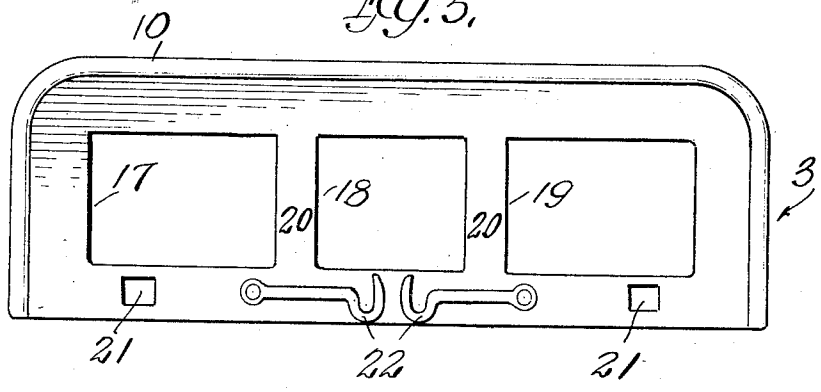


Fig. 5.



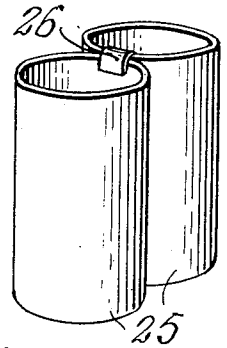


Fig. 6.

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UNITED STATES PATENT OFFICE

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SHIPPING BOX

Application filed July 19, 1928. Serial No. 293,862.

This invention relates to improvements in shipping boxes and it consists of the matters hereinafter described and more particularly described in the appended claims.

The primary object of the invention is to provide a box especially adapted for the parcel post shipment of dairy products direct to the consumer and the like return when empty to the shipper, which box though light in weight is strong and durable.

Another object of the invention is to so arrange the parts that they will readily suggest to the authorized party the manner in which the box may be opened and closed and this without danger of the breakage or loss of any of the said parts.

Still a further object of the invention is to provide a box of this kind which includes two hinged cover parts adapted to be folded into superposed relation to close the box, which cover parts not only secure the reversible address card in position to expose the desired portions of the same, but include parts adapted to interengage to lock said cover parts in box closing position.

These objects of the invention as well as others together with the many advantages thereof will more fully appear as I proceed with my specification.

In the drawings:—

Fig. 1 is a top plan view of the box on an enlarged scale, with parts broken away to more clearly show the construction of the box.

Fig. 2 is a longitudinal vertical section through the box as taken on the line 2—2 of Fig. 1.

Fig. 3 is a transverse vertical section through the box as taken on the line 3—3 of Fig. 1.

Fig. 4 is a top plan view of one of the cover parts.

Fig. 5 is a top plan view of the other of the cover parts.

Fig. 6 is a perspective view of one unit of a cellular structure employed in connection with the box as when shipping eggs.

Referring now in detail to that embodiment of the invention illustrated in the accompanying drawings: 1 indicates as a whole the body of the box and 2 and 3 indicate the coacting parts providing the cover for said box, all made of sheet metal.

The box body which is open at its top is herein shown as being of a width greater in one direction than the other and of a depth less than the smaller width but the relative proportions of said widths and depth may of course be changed without in any way affecting the spirit of the invention. Said body includes parallel end walls 4—4 and parallel side walls 5—5 connected by rounded corners 6 and a bottom wall 7 which is offset upwardly above the bottom edges of said end and side walls but is crimped thereon. To stiffen said end and side walls the top margin thereof is folded over to provide a thickened flange 1^a.

The cover parts 2 and 3 are each hinged as at 8 and 8^a respectively to opposed side walls of the box body as will later appear and the cover part 2 approximates in area more than one half the area of the box body, while the cover part 3 approximates an area substantially one-half the area of the box body. The cover part 2 is upset along one side and both ends to provide a downwardly facing grooved flange 9 to fit over the flange 1^a on the top edge of the box body while the side and ends of the cover part 3 are likewise upset to form a downwardly facing groove flange 10 to fit over the flange 1^a on the associated side wall and to fit over the like flanges 9—9 on the ends of the other cover part when said cover parts are in box closing positions. Thus said grooved flanges not only provide a better fit for said cover parts on the box body but they also stiffen said cover parts. Parts of the flanges along the longer sides of the cover parts are curled about a pintle 11 fixed to the side walls of the box in any suitable manner to provide the hinged connections 8 and 8^a between the box body and said cover parts.

A portion of the free margin of the cover part 2, is depressed to form a seat 12 for an address, return and stamp card or strip 13 which engages at one margin under tongues 14—14 struck up from said depressed portion so as to be detachably secured thereby. In the body of said cover plate near said seat 12

are formed two upwardly struck loops or eyes 15—15 the purpose of which will later appear and a folding bail 16 is secured to said cover 3 by which the box may be readily carried about when the cover parts are in their box closing position.

The cover part 3 is provided with a plurality of longitudinally spaced openings 17—18 and 19 respectively through which the addresses of both consignor and consignee on the card 13 are visible as well as the postage stamps when the box is shipped parcel post. In this case the opening 18 for the postage stamps is separated from the other openings by bars 20—20 which when the covers are in box closing position are disposed upon and conceal the card holding tongues 14 on the cover 2. In the free margin of the cover 3 are formed openings 21—21 which are so positioned as to register with the loops 15 on the cover 2 which when said covers are in their box closing position, project up through said openings, to be engaged by associated hooks 22—22 pivoted in said margin of said cover 2. When said covers are in their box closing position as best shown in Fig. 2 and are locked in this position by the hooks 22, the cover 3 is held down against the card 13 in a manner to prevent its displacement and in no manner interferes with the folding bail 16.

When the box is employed for the parcel post shipment of eggs, which is now a common practice, there is employed within the box, top and bottom pads 23—24 of paper board with an intermediate cellular structure comprising upright tubes 25 each to receive an egg, said tubes being secured together in pairs by clips 26 at the top and bottom of each pair, such a pair of tubes or cells is best shown in Fig. 6. The box is completely filled with said tubes or cells which not only snugly fit in the corners of the box but also fit against one another and by securing said tubes together in pairs, they may be easily removed when necessary.

Shipping boxes made as above described are light in weight and the parts are so correlated as to make them strong and rigid. Again the parts readily suggest, even to the most inexperienced person, the mode of operation to open and close the box and there are no parts intended to be removed from the box with probable loss thereof.

While in describing the invention I have referred in detail to the form, arrangement and construction of the various parts thereof, the same is to be considered as merely illustrative so that I do not wish to be limited thereto except as may be specifically pointed out in the appended claims.

I claim as my invention:—

1. A shipping box embodying therein, a box body open at the top, a pair of cover members each hinged along opposite side walls of the body and adapted to be folded into superposed relation to close said open top of the box and to engage at their ends upon the opposite end walls of said box body, means on one cover member to receive a card thereon, the other cover member having openings therein to expose desired portions of said card and means on said cover members adapted for interengagement when said cover members are in box closing position to lock said cover members together.

2. A shipping box embodying therein, a box body open at the top, a pair of cover members hinged along opposite side walls of said body and there having a flanged engagement with said side walls as well as with said end walls of the box body, means on one cover member to receive a card therein, the other cover member having openings therein to expose desired portions of said card and means on said cover members adapted for interengagement when said cover members are in box closing position to lock said cover members together.

3. A shipping box embodying therein, a box body open at the top, a pair of cover members hinged along opposite side walls of said body and there having a flanged engagement with said side walls as well as with the end walls of the box body, one of said cover members being of an area greater than one half the area of said box body and having a card receiving seat in its free margin and upwardly punched loops adjacent said seat, the other cover member having openings therein to expose desired parts of the card and also having openings in one margin through which said upwardly punched loops extend when said cover members are in box closing position and hooks pivoted to said margin of said second cover member adapted to be inserted through said loops to lock the cover parts together in box closing position.

4. A shipping box embodying therein, a box body open at the top, two cover members hinged to opposite side walls of the box and extending over said side wall as well as the end walls of said body when in closed position thereon, one of said cover members being of such an area as to project beyond the median line of said box body when in closed position thereon, the free margin of said cover member being depressed to form a card receiving seat with upwardly punched card securing tongues therein, said cover member also having upwardly punched loops therein adjacent said seat, the other cover member approximating an area of substantially one half the box and having card exposing openings therein separated by bar parts adapted to engage over said tongues and also having openings in its free margin for the passage of said loops when said covers are in closed position, hooks pivoted on the free margin of

said second cover member to be engaged with said loops and a bail pivoted to the first mentioned cover part on the median line of the box body.

In testimony whereof, I have hereunto set my hand, this 11th day of July, 1928.

ADOLPH R. HOEFT.