May 3, 1927. 1,626,971

W. W. RUSSELL

CARTON

Filed March 12, 1923

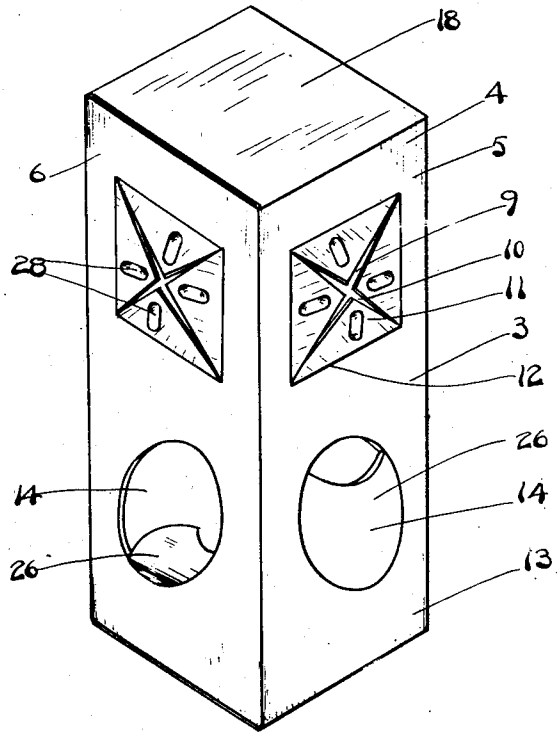


FIG. 1

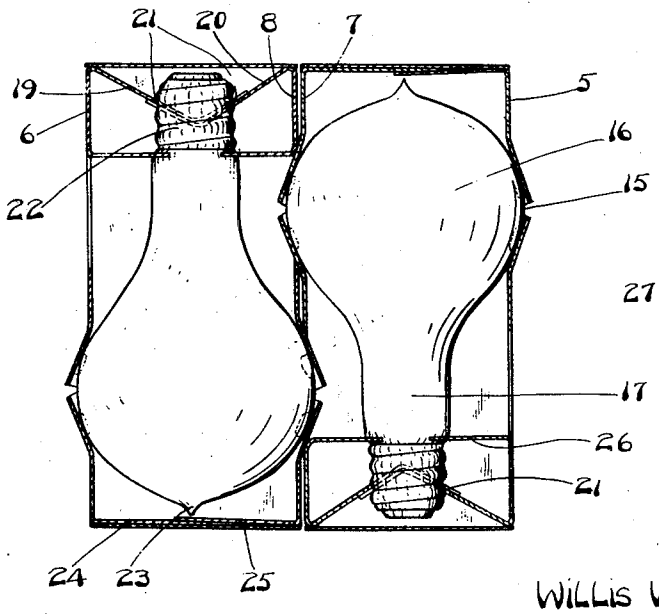


FIG. 2

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Patented May 3, 1927. 1,626,971

UNITED STATES PATENT OFFICE.

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CARTON.

Application filed March 12, 1923. Serial No. 624,625.

An object of my invention is to provide a container for use with electric light bulbs and the like, that will support and protect such bulbs without the employment of additional protective material of the corrugated sort and the like.

Another object of my invention is to provide a device for the purposes stated wherein the cartons themselves may be so employed as to attain certain shock resisting qualities for minimizing shock transmitted to the lamps, from impact directed upon the crates or the like containing the cartons and lamps.

Another object of my invention is to provide a carton of the type referred to that may be readily printed and that may be economically packed for shipment and storage.

Another advantage of my invention is to provide a carton wherein the lamps are precluded from slipping out of the carton when the ends of the carton are open thereby reducing the likelihood of accidental breakage.

These and other objects are attained by the means described herein and disclosed in the accompanying drawings, in which:

Fig. 1 is a perspective view of a carton embodying my invention.

Fig. 2 is a transverse sectional view through two cartons embodying my invention showing the manner in which the cartons are nested and the manner in which lamps are positioned and retained in the cartons.

The carton 3 is preferably of a square cross section and of a rectangular longitudinal section. Adjacent one of its ends 4, the carton has formed in it sides 5 and 6, as shown in Fig. 1, and sides 7 and 8 as disclosed in Fig. 2, intersecting slits 9 and 10. Flaps 11 are bent outwardly from the sides of the carton upon lines 12 extending between the extremities of the slits 9 and 10 whereby each of the flaps is of a substantially triangular form, all of the flaps having their free apexes converging upon substantially the same point. Each of the sides of the carton has formed in it adjacent the opposite ends 13, an aperture 14. The apertures 14 are so positioned that when adjacent cartons are disposed as shown in Fig. 2 whereby to dispose the flaps of a given carton adjacent the perforated ends of the next adjacent cartons, the flaps will enter the perforations 14 of such adjacent cartons. In providing cartons to be used with given size lamps, the perimeter of the carton is substantially equal or possibly slightly larger than the circumference of the lamp at the widest portion 15 of the bulb 16 thereof. This relationship is established so that the lamps 17 may be inserted in the square cartons, without tearing the cartons at the corners thereof, and for utilizing the contact of the bowl 16 upon the inner surface of the flaps 11 for projecting the flaps outwardly when the carton again assumes its square form. The slits 9 and 10 permit the resumption of the square form by the carton. One of the sides of the carton, may carry suitable end laps 18 whereby to close the end of the carton. Other sides, at the perforated ends of the carton may carry suitable inter-locking side flaps 19 and 20 between which an opening 21 may be provided for the reception of the screw cap 22 of the lamp 17. By making the end flaps 19 and 20 sufficiently long that when these flaps assume their inter-locked position the end flaps will extend inwardly of the end 18 as shown in Fig. 2, the end laps are utilized for axially spacing the screw cap 22 within the carton. The tip 23 of the lamps may rest upon the end flaps 24 and 25 formed at the opposite ends of the carton, or may be spaced from such end flaps 24 and 25 as desired.

If desired the apertures 14 may be dispensed with, the portions of sides adjacent the necks of lamps being spaced sufficiently far from the lamps as to avoid injury to adjacent lamps and serving as a resilient spacing means. Again, the material 26 that is severed to provide the apertures 14 may have a hinged connection upon the sides of the carton and may be bent into the carton for spacedly positioning the neck of the lamp from the carton sides as shown at 27. The material 26 is in the nature of a spacing lug. The flaps 11 comprising the protuberances from the sides of the carton may have ridges or beads 28 formed in them, the beads projecting the flaps farther outward by their engagement upon the lamp bowl, thereby augmenting the cushioning effect of the flaps.

What I claim is:

1. A carton of the class described comprising slitted sides, the sides having ridges formed adjacent the slits for engagement upon an article contained in the carton for projecting the sides adjacent the slits out-

wardly, lugs struck inwardly from the sides for positioning an article in the container and whereby apertures are formed in the sides for the reception of bulged portions of adjacent cartons.

2. In a package, the combination of a container having normal major and minor diameters lying in the same plane, the container comprising exterior walls, having intersecting slits therein, whereby to form openings in the package, an article in the container, said article having a diameter intermediate the major and minor diameters of the container, and having its indicated diameter disposed at the slits in the container walls, the article thereby outwardly projecting the portions of the container intermediate the slits for providing protective means for the package, and the entry of the article into the said openings in the container permitting the container to assume its normal condition.

3. In a package, the combination of a container having normal major and minor diameters lying in the same plane, the container comprising exterior walls, having intersecting slits therein, whereby to form openings in the package, an article in the container, said article having a diameter intermediate the major and minor diameters of the container, and having its indicated diameter disposed at the slits in the container walls, the article thereby outwardly projecting the portions of the container intermediate the slits for providing protective means for the package, and the entry of the article into the said openings in the container, permitting the container to assume its normal condition, the container being also provided with openings for receiving the protective means of other packages when a plurality of packages are positioned adjacent one another.

4. A carton comprising sides for forming a hollow container, the sides having intersecting slits whereby to provide openings in the sides, the material intermediate the slits being developed into flaps each having a hinged connection with their respective sides at and between the extremities of adjacent slits, whereby insertion into the package of an article of such size that the article on registration with the openings in the sides causes portions of the article to enter said openings for projecting the hinged flaps outwardly for providing protecting means for the carton and its contents, the flaps substantially covering the article at said openings in the carton sides.

5. A carton comprising sides for forming a hollow container, the sides having intersecting slits whereby to provide openings in the sides, the material intermediate the slits being developed into flaps each having a hinged connection with their respective sides at and between the extremities of adjacent slits, whereby insertion into the package of an article of such size that the article on registration with the openings in the sides causes portions of the article to enter said openings for projecting the hinged flaps outwardly for providing protecting means for the carton and its contents, the flaps substantially covering the article at said openings in the carton sides, the sides also having other openings into which the enclosed article does not extend, and into which openings the projecting flaps of adjacent cartons may enter when the sides of a plurality of cartons with their contents are brought into contact with one another.

In testimony whereof, I have hereunto subscribed my name this first day of March, 1923.

WILLIS W. RUSSELL.