R. L. BEACH.

INCANDESCENT LAMP WRAPPER.

APPLICATION FILED MAY 9, 1916.

1,312,513.

Patented Aug. 12, 1919.

Fig.1.

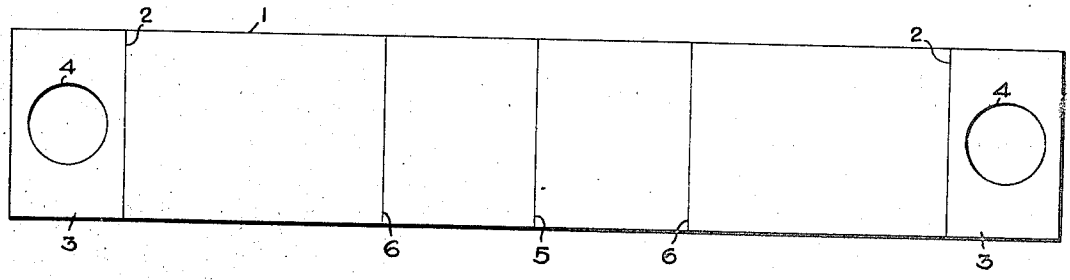


Fig.2.

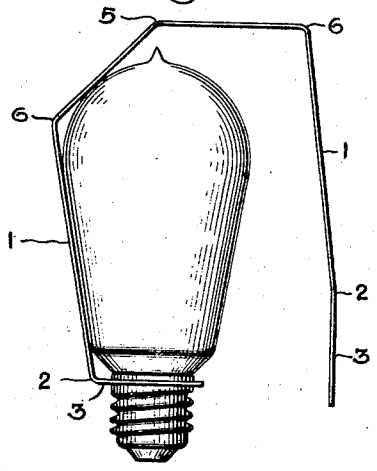
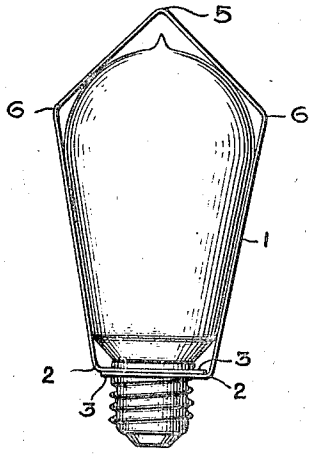


Fig.3.



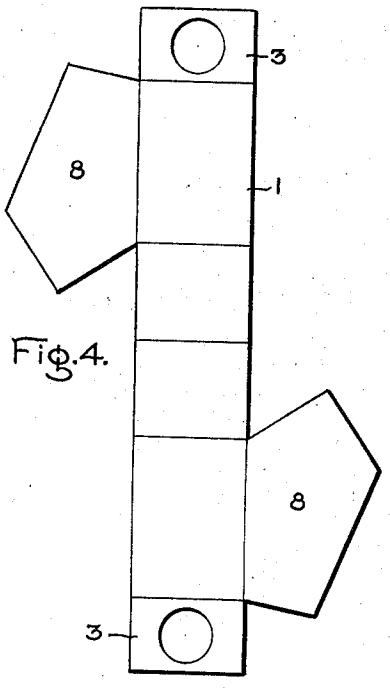
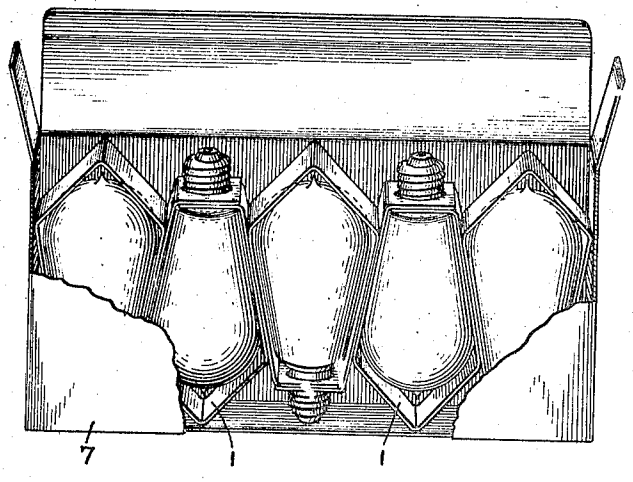


Fig.4.

Fig.5.



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UNITED STATES PATENT OFFICE.

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INCANDESCENT-LAMP WRAPPER.

1,312,513. Specification of Letters Patent. Patented Aug. 12, 1919.

Application filed May 9, 1916. Serial No. 96,335.

To all whom it may concern:

Be it known that I, RALPH L. BEACH, a citizen of the United States, residing at East Orange, in the county of Essex, State of New Jersey, have invented certain new and useful Improvements in Incandescent-Lamp Wrappers, of which the following is a specification.

Incandescent lamps and similar glass articles are often packed side by side in a package of a size convenient for handling and so proportioned that when it is full the lamps are packed in tight enough to be held quite firmly. The tip of an incandescent lamp is very easily damaged or broken by a blow or shock and the thin bulbs of the lamps may also be broken by a comparatively slight shock if the bulbs come into direct glass to glass contact with one another. These accidents are particularly apt to happen after one or two lamps have been taken out of a package and the remaining lamps are loose and free to move to a considerable extent when the package is handled.

The object of my invention is to provide an inclosure or wrapper for the individual lamps which will prevent direct contact of the glass bulbs with one another and will also shield the tip of the lamp. A further object of my invention is to provide such a wrapper which is very cheap and easily made from flat paper stock or similar material. A still further object is to provide a wrapper which can easily be applied to the lamp with comparatively few and simple movements and will be firmly held in place without the use of any adhesive. To this end I provide each lamp with a wrapper or inclosure made in the form of a ribbon or band and adapted to be wrapped around the lamp longitudinally and locked in place on the lamp by means of perforations on the band which fit down snugly over the base of the lamp. The wrapper is applicable to other similar articles which have any protuberance on which the band or wrapper can fit snugly and be locked.

My invention will be best understood in connection with the accompanying drawing in which Figure 1 is a plan view of the flat blank or ribbon constituting one embodiment of my invention; Fig. 2 is a view showing the wrapper at an intermediate point of its application to the lamp, one end of the wrapper being secured to the base of the lamp and the body of the wrapper being bent around part of the bulb; Fig. 3 is a view of a lamp with the wrapper in place and both ends locked on the base; Fig. 4 is a view of the blank shaped to provide a wrapper with side walls; and Fig. 5 is a plan view of a carton filled with incandescent lamps, each provided with a wrapper or inclosure embodying my invention. The particular form of packing shown in the drawing encircles the lamp longitudinally and is made in the form of a flexible ribbon or blank 1, provided near each end with a transverse line of weakness 2, to make the ends into tabs or flaps 3 which are perforated by apertures 4 of substantially the same diameter as the base of the lamp to which the packing is to be applied. I may also provide a line of weakness 5 in the middle of the blank to facilitate bending it around the tip of the bulb. I may also in some cases provide other lines of weakness, such as the lines 6 on each side of the line 5 to facilitate bending the blank into any desired form.

The packing is applied to the lamp by slipping the base of the lamp through the aperture 4 in one of the flaps 3 and then bending the blank around as shown in Fig. 2, and finally slipping the other perforated flap down over the base, as shown in Fig. 3, whereby the two flaps 3 overlap and are locked on the base, as shown in Fig. 3. The blank is firmly held in place on the lamp with sufficient space between the tip of the lamp and the bend at the score line 5 to prevent the tip coming in contact with the wrapper. The blank 1 is made of material sufficiently rigid to act as a shield or protector for the tip of the lamp when the lamp is handled.

Lamps provided with this form of inclosure are preferably packed in a carton or box 7 as shown in Fig. 5. The wrapper 1 permits the lamps to be packed side by side very snugly and when so packed, the lamps are so firmly held that they can be shipped without danger of injury by the tips being broken or the lamps striking each other. The lamps can be taken out of the carton 7 one at a time without impairing the protection afforded to remaining lamps, each of which has its own wrapper 1 whether in or out of the carton. This feature is of great advantage where only one or two lamps at a time are taken out of the carton.

The wrapper shown in Fig. 1 can be cut or stamped from cardboard or other suitable material at a single operation and can easily be applied to the lamp merely by bending up the tabs 3 and slipping the tabs over the base of the lamp, whereupon the wrapper is firmly locked in place.

This is an operation which can easily be performed by machinery and therefore the wrapper embodying my invention is particularly well adapted for use in connection with machinery for applying the wrappers to the lamps.

The wrapper is cheap and efficient and when in place on the lamp prevents contact between the glass and the bulbs of the different lamps and also gives ample protection to the tip of the lamp. In addition lamps provided with this wrapper will pack very closely and snugly, as shown in Fig. 5, and any desired number of lamps can be removed from the package without destroying the protection afforded the remaining lamps by their individual wrappers.

In some cases the wrapper may, as shown in Fig. 4, be provided with tabs 8 which can be folded inward to form sides or covers for the lamp when the wrapper is in place on the lamp. These sides 8 will prevent the glass bulbs striking each other when the lamps are packed in two or more layers and are not separated by other means.

What I claim as new and desire to secure by Letters Patent of the United States, is,—

1. A packing for incandescent lamps comprising an oblong blank having at each end a portion adapted to be bent at right angles to the body of the blank and perforated by an aperture of a size to fit snugly over the base of the lamp and having near the middle a line of weakness which causes said blank to form a pointed end spaced away from the tip of the lamp and supported by the rounded end of the bulb, said blank forming an inclosure conforming to the contour of the lamp when bent to cause said ends to overlap with said apertures in register.

2. An incandescent lamp package comprising a flexible blank for encircling the lamp longitudinally and having near each end a line of weakness and an aperture the size of the lamp base between each line of weakness and the end of the blank to make perforated tabs which can be folded to overlap when said blank encircles the lamp and bring said apertures into register and in position to fit snugly on the base of the lamp and having three lines of weakness near the middle to cause the formation of a V-shaped end which covers the tip of the lamp and has its sides supported by the rounded end of the lamp when said blank is in place.

3. An incandescent lamp package comprising an oblong flexible blank scored transversely at three points near the middle and scored near each end to permit said blank to be bent around the lamp longitudinally and form an oblong inclosure with a V shaped portion supported over the tip by the bulge of the bulb to leave a space between the blank and the tip and to permit the end portions to be bent toward each other to overlap on the base of the lamp, each end portion being provided with an aperture which fits over the lamp base.

4. The combination of a lamp and a protective carrier therefor comprising a strip of sheet material, means near each end of said strip for gripping the lamp shank, said strip having its sides in contact with the lamp and being of sufficient length between the opposite gripping means to maintain its mid portion free of the lamp.

5. The combination of a lamp and a protective carrier therefor comprising a strip of sheet material, means near each end of said strip for gripping the lamp shank and holding the lamp centrally disposed in said carrier and with its point free of the carrier.

6. The combination of a lamp and a protective carrier therefor comprising a strip of sheet material, means near each end of said strip for gripping the lamp shank, said strip being of sufficient length between said gripping means to maintain the central portion of the strip free of the point of the lamp when assembled on said lamp and with portions of said strip in contact with opposite sides respectively of the lamp.

In witness whereof, I have hereunto set my hand this sixth day of May, 1916.

RALPH L. BEACH.