L. D. MORTON.

WRAPPER.

APPLICATION FILED JUNE 16, 1913.

1,148,115.

Patented July 27, 1915.

Fig. 1.

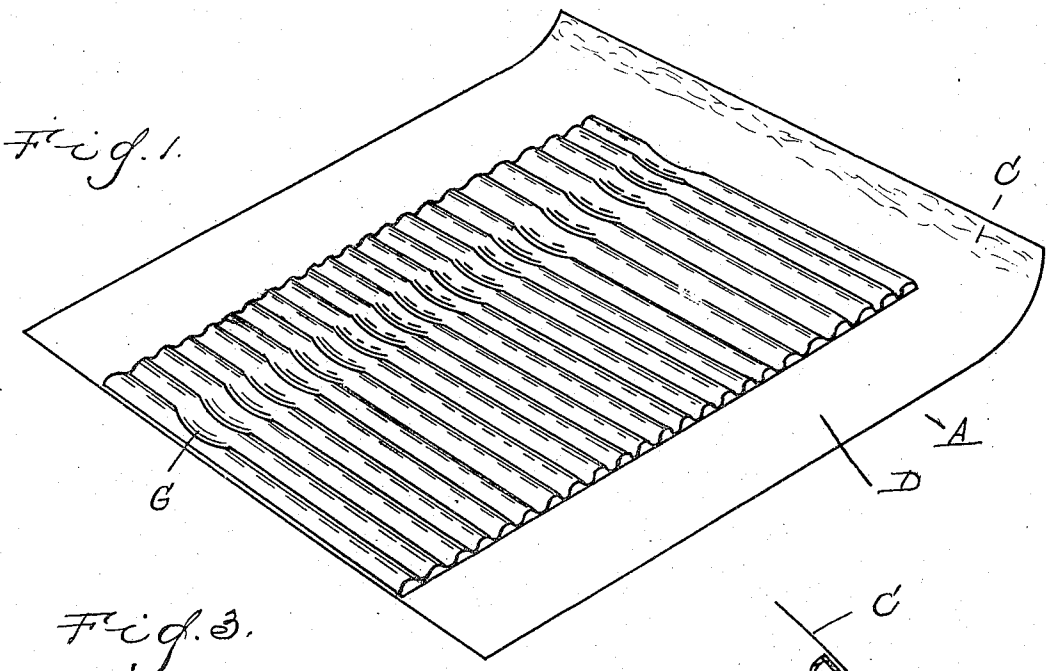


Fig. 3.

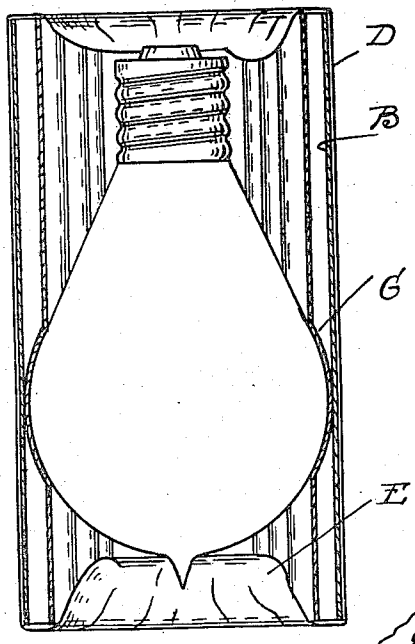


Fig. 2.

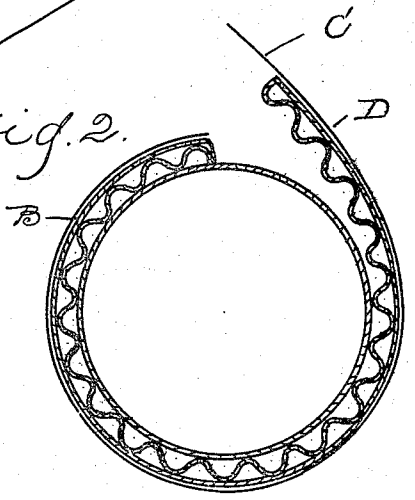
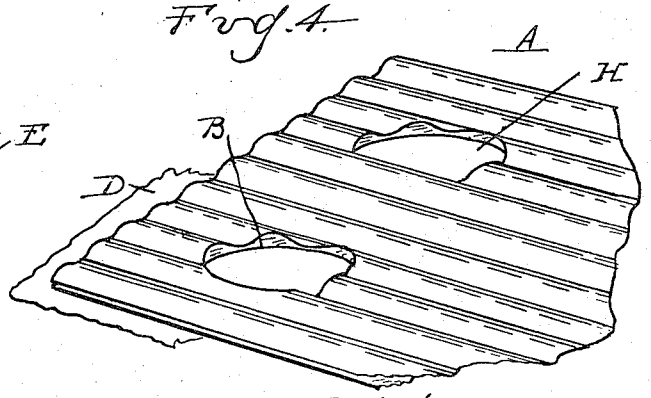


Fig. 4.



Witnesses
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UNITED STATES PATENT OFFICE.

LAWRENCE D. MORTON, OF SANDUSKY, OHIO, ASSIGNOR TO THE HINDE & DAUCH PAPER COMPANY, OF SANDUSKY, OHIO, A CORPORATION OF MICHIGAN.

WRAPPER.

1,148,115. Specification of Letters Patent. **Patented July 27, 1915.**

Application filed June 16, 1913. Serial No. 773,956.

To all whom it may concern:

Be it known that I, LAWRENCE D. MORTON, a citizen of the United States of America, residing at Sandusky, in the county of Erie and State of Ohio, have invented certain new and useful Improvements in Wrappers, of which the following is a specification, reference being had therein to the accompanying drawings.

The invention relates to wrappers designed for use in forming a protective package for the shipment of articles, and having particular reference to a construction suitable for the shipment of incandescent electric lamp bulbs. Heretofore various devices have been employed for the protection of lamp bulbs, but none have been altogether satisfactory. The difficulty encountered is the protection of the tip, which is so fragile that a slight impact will break it, thus destroying the vacuum and rendering the lamp useless. With the present invention this difficulty is overcome by a construction which holds the bulb from movement within the wrapper, while the latter projects sufficiently beyond the tip end of the bulb to effectively protect it.

In the drawings: Figure 1 is a perspective view of the wrapper before application; Fig. 2 is a cross section showing the manner of wrapping the bulb; Fig. 3 is a longitudinal section through the wrapper with the bulb therein; and Fig. 4 is a view similar to Fig. 1 showing a modified construction.

The type of wrapper most commonly used in the shipment of incandescent lamp bulbs is a longitudinally corrugated paper tube, so proportioned in diameter to the lamp bulb that the corrugations are drawn out or expanded at the edge diameter of the bulb, forming a double tapering package. This in a measure holds the bulb from longitudinal displacement, but, due to the stretching out of the corrugations, there is frequently sufficient displacement to break the tips. With the present construction, the advantages of the corrugated tube wrapper are retained, while in addition thereto provision is made for absolutely holding the bulbs from displacement, in the following manner: A is a sheet of corrugated board, having a non-corrugated single facing B. The width of the blank is such that when wrapped around the bulb the opposite edges will meet, and these are then secured together by a gummed flap C, preferably a projecting portion of a paper cover D which extends the entire area of the blank. The paper cover D is of greater length than the faced corrugated board, and consequently after the wrapper is in cylindrical form, these projecting ends of the paper may be tucked in to form a cushion E at the end of the bulb. If the wrapper, as above described, were made of the diameter of the size of the largest dimension of the bulb, there would still be the possibility of longitudinal displacement of the bulb, which might result in breaking the tip. I therefore provide retaining shoulders for engaging the convex portion of the bulb on opposite sides of the portion of greatest diameter, preferably by crushing down the corrugations as indicated at G. These crushed-down corrugations G form a groove in the blank, and the width of the latter is such that when wrapped around the bulb with its largest diameter in the groove, the opposite edges of the blank will meet. Thus the diameter of the uncrushed portions of the corrugations is less than the maximum diameter of the bulb, and consequently opposed shoulders are formed, which hold the bulb from longitudinal movement.

In Fig. 4, a modified construction is shown, in which, instead of crushing down the corrugations, the latter are cut away at a number of points H to form retaining seats for the bulb. This will produce the same effect of holding the bulb from longitudinal movement, and it is obvious that various other modifications might be made to produce a similar result.

When the wrapper is applied to the bulb and the ends of the paper cover tucked in, the result is a cylindrical package, which is easily packed within an outer case and which forms an absolute protection, not only for the body of the bulb but also the tip thereof.

What I claim as my invention is:

1. A wrapper for tipped bulbular bodies, comprising a blank of corrugated board having a paper cover of greater dimensions, with an adhesive portion, said blank having concave depressions formed in a portion of the corrugations to receive the maximum diameter of the bulb when said wrapper is wrapped thereabout, said adhesive portion forming a means of uniting the edges of the

blank, and the projecting portions of the cover being adapted to be tucked in the ends of the wrapper to form cushions for the bulb.

2. A wrapper for tipped bulbular bodies, comprising a corrugated blank having concave depressions formed in a portion of the corrugations to receive the maximum diameter of the bulb when said wrapper is wrapped thereabout, said blank having projecting portions adapted to be tucked in the ends of the wrapper to form cushions for the bulb.

3. A wrapper for bulbular bodies having a maximum diameter intermediate portions of lesser diameter, comprising a corrugated blank having concave depressions formed in a portion of the corrugations to receive the maximum diameter of the bulb when the wrapper is secured thereabout, and adapted to hold said bulb from movement by engaging the portions upon opposite sides of the maximum diameter of the bulb.

In testimony whereof I affix my signature in presence of two witnesses.

LAWRENCE D. MORTON.

Witnesses:
L. W. A. BUTLER,
E. F. ROBERTS.