

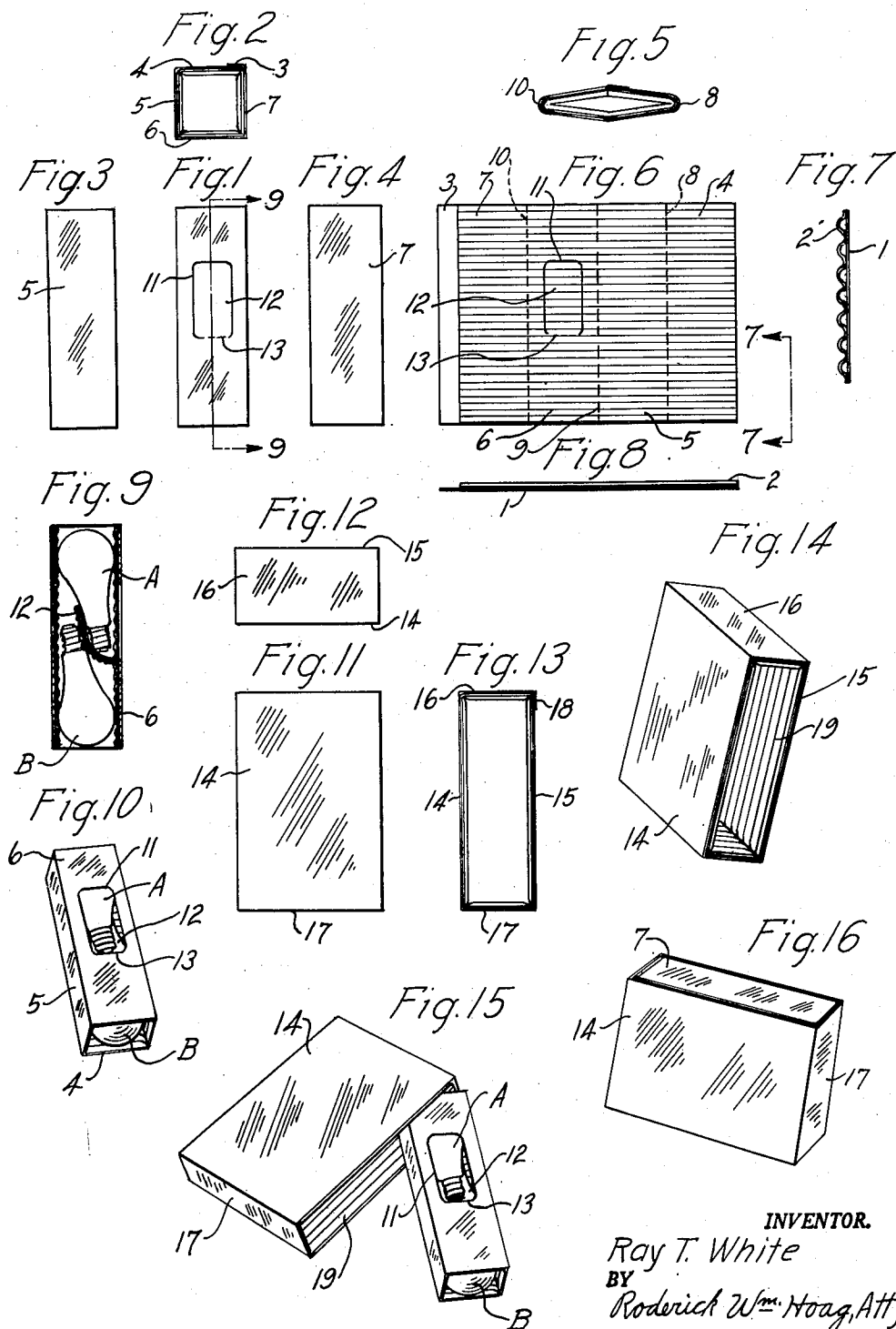
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LAMP BULB MERCHANDISING PACKAGE

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LAMP-BULB MERCHANDISING PACKAGE

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This invention relates to paper cartons generally and more particularly to wrappers for packaging electric light lamps. The preferred embodiment of my invention comprises an outer sleeve, made of single-faced corrugated paper, into which two tubes, or wrappers, are snugly fitted. Each of the two tubes holds two electric light lamps, the bulb end of the lamps being positioned at the ends of the tubes with the bases of the lamps bypassing each other in the central part of the tube.

This new lamp wrapper package is an improvement over the packages now in use in that it is more convenient for the user to purchase, carry, and store light lamp bulbs; and results in space savings of from 10 per cent to 25 per cent for users, shippers, warehousemen, and merchants.

Important features of my invention are new economies in the packaging operations which result from using one improved wrapper for two light lamps instead of a wrapper for each light lamp, and providing a separator pad integral with the wrapper between the lamps.

The objects of my invention are to provide economical, compact, packaging units for electric light lamps, using a minimum of wrapper material, providing a saving in storage space, and a saving of labor in manufacturing lamp wrappers and a savings in labor in packaging and shipping electric light lamps.

With said object in view, my invention consists in the improved wrapper package, for protectively containing electric light lamps, substantially as hereinafter described and claimed.

Of the accompanying drawings:

Figure 1 is a front elevation of the wrapper tube for holding two lamps.

Figure 2 is a plan view of Figure 1.

Figure 3 is a view of the left hand side of Figure 1.

Figure 4 is a view of the right hand side of Figure 1.

Figure 5 is an end view of the tube shown in Figures 1 to 4 inclusive in folded or collapsed condition.

Figure 6 is a development of the tube shown in Figures 1 to 5 inclusive, prior to the folding and joint securing operations.

Figure 7 is an edge view at 7—7 of Figure 6 drawn to a larger scale.

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Figure 8 is a front edge view of Figure 6.

Figure 9 is a partial section at 9—9 of Figure 2 with two lamps positioned within the tube and with the separator pad 11 flexed into position to protectively separate the bases of the two lamps.

Figure 10 is a perspective view of the lamp wrapper with two lamps contained therein.

Figure 11 is a front elevation of the outer sleeve wrapper for containing two of the two-unit wrapper tubes.

Figure 12 is a plan view of Figure 11.

Figure 13 is a side view of Figure 11, looking into the sleeve.

Figure 14 is a perspective view of the outer sleeve wrapper shown in Figures 11 to 13 inclusive.

Figure 15 is a perspective view showing one of the two-unit lamp wrapper tubes in position to be fitted into place in the outer sleeve wrapper.

Figure 16 is a perspective view of the completed package showing the outer sleeve wrapper enclosing two of the two-unit lamp packages.

Similar reference characters indicate similar parts or features in all of the views.

Referring first to Figures 6, 7 and 8 there is shown a blank of single faced corrugated paper material suitably prepared to provide the elements necessary for the two-unit lamp wrapper tube. The single faced corrugated material comprises a sheet of paper 2 which is transversely corrugated, with the crowns of the corrugations adhesively secured to a face sheet 1 which is left flat or comparatively smooth. The edge of the face paper extends at one end beyond the corrugations to provide a glue flap 3. Crease lines 8, 9 and 10 are provided to effect a division of the blank to provide four wrapper tube walls 4, 5, 6 and 7. The blank is also provided on wall section 6 with an inverted U-shaped cut 11 to provide a separator pad flap 12 (Figs. 1 and 6) free to hinge at 13.

After the two-unit wrapper blank is prepared as shown in Figure 6, the wall section 4 is folded, on crease line 8, upward and over to overlie wall section 5. Adhesive is applied to glue flap 3 before the wall section 7 is folded, on crease line 10, upward and over to overlie wall section 6, with the adhesively treated surface of glue flap 3 overlying and engaging the free side margin of wall section 4. After the folding and adhesive

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securing operations have been performed, the wrapper tube is in folded condition as shown in Figure 5.

When the two-unit lamp wrapper tubes are required for use they are set up from flat folded condition by simply pressing inward at the crease lines 8 and 10 of Figure 5. Thus the wrappers are brought to the condition illustrated by Figures 1 to 4 inclusive.

In placing the lamps A and B in the two-unit wrapper tube, the separator pad flap 12 is flexed inward to hinge at 13. It will be obvious that when the separator pad flap 12 is so flexed inward, the bases of the lamp A will engage the flap to hold it in inwardly flexed position. When lamp B is inserted into the two-unit wrapper tube its base will engage the other side of the separator pad flap 12 and thus serve to keep the lamps from touching each other, as shown in Figure 9.

Figures 11 to 14 inclusive, illustrate the outer sleeve wrapper which is designed to contain two of the two-unit lamp wrapper tubes. This outer sleeve wrapper is made of single faced corrugated paper 19 and is fabricated in exactly the same manner as the two-unit lamp wrapper tube, except that it of course has different dimensions, and has no separator pad flap. The outer sleeve wrapper when set up from folded condition has four wall sections 14, 15, 16 and 17, and a glue flap 18.

The final step in preparing the package consists in inserting two of the two-unit lamp packages into the outer sleeve wrapper. The dimensions of the two-unit lamp wrapper tubes and the outer wrapper are such that the two-unit packages will be frictionally retained within the outer wrapper and all held snugly together as shown in Figure 16.

The specification has described single faced corrugated paper as being the preferred material for the walls of the wrapper. However, it will be obvious that the walls of the wrapper may be of double faced corrugated material, plain sheet material or any other suitable substance.

From the foregoing description, taken in connection with the accompanying drawing, I have shown and described a simple and practical embodiment of my invention, as reduced to practice. It is to be understood that the particular constructions set forth are susceptible of modification in various ways without departing from my invention. The separator pad flap 12 may be cut to any desired form or shape without departing from the spirit of my invention. Also the glue flap 3 on the two-unit lamp wrapper tube, and glue flap 18 on the outer wrapper sleeve may obviously be omitted and the abutting ends of the side walls secured together by tape or any other suitable means without departing from the spirit and scope of the invention.

Having now described my invention, I claim:

1. A lamp bulb package comprising an open ended tube of substantially square cross-section adapted closely to fit the maximum diameter of each lamp bulb to be packaged therein and made of single faced corrugated paper, a pair of identical lamp bulbs each having a bulbous body portion tapering to a base end of reduced diameter, said bulbs being disposed within said tube with their base ends in overlapping nested relation and with their respective body portions frictionally engaging the walls of the tube at opposite ends of the tube, and a longitudinally flexible and transversely relatively rigid flap of corrugated paper integrally connected at one end to one wall

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of said tube, said flap being cut out from said one wall of said tube and extending in a direction longitudinally diagonally of said tube between said overlapping base ends of said lamp bulbs, and said connected end of said flap being spaced from one end of said tube a distance substantially equal to the over-all length of one of said lamp bulbs.

2. A lamp bulb package comprising an open ended tube of uniform substantially square transverse cross-section, a single longitudinally flexible and transversely relatively rigid flap cut out from one wall of said tube and having one of its ends hinged to said wall of said tube, said flap being depressed inwardly and providing an access opening in said one wall and extending diagonally within and having a free end portion out of contact with the interior of said tube, and a pair of identical generally pear-shaped lamp bulbs each having a reduced neck portion with a threaded base at the outer end thereof and an enlarged head portion, said lamp bulbs being disposed in said tube with the outer ends of said enlarged head portions extending substantially to the open ends of said tube, said threaded base portions being in overlapping relation to each other with said free end portion of said longitudinally flexible flap disposed therebetween, and said base portion of one of said bulbs being exposed through said access opening.

3. A lamp bulb package comprising an open ended tube of uniform substantially square transverse cross-section, a single longitudinally flexible and transversely relatively rigid flap cut out from one wall of said tube and having one of its ends hinged to said wall of said tube, the hinged end of said flap being spaced from one open end of said tube a distance substantially equal to the over-all length of one of said lamp bulbs, said flap being depressed inwardly and providing an access opening in said one wall and extending diagonally within said tube toward said one end thereof, said flap having a free end portion out of contact with the interior of said tube, and a pair of identical generally pear-shaped lamp bulbs each having a reduced neck portion with a threaded base at the outer end thereof and an enlarged head portion, said lamp bulbs being disposed in said tube with the outer ends of said enlarged head portions extending substantially to the open ends of said tube, said threaded base portions being in overlapping relation to each other with said free end portion of said longitudinally flexible flap disposed therebetween, and said base portion of one of said bulbs being exposed through said access opening.

4. A lamp bulb package comprising an open ended tube of uniform substantially square transverse cross-section, a single longitudinally flexible and transversely relatively rigid flap cut out from one wall of said tube and having one of its ends hinged to said wall of said tube, the hinged end of said flap being spaced from one open end of said tube a distance substantially equal to the over-all length of one of said lamp bulbs, said flap being depressed inwardly and providing an access opening in said one wall and extending diagonally within said tube toward said one end thereof, said flap having a free end portion out of contact with the interior of said tube, and a pair of identical generally pear-shaped lamp bulbs each having a reduced neck portion with a threaded base at the outer end thereof and an enlarged head portion, said lamp bulbs being disposed in said tube with the outer ends of said enlarged

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head portions extending substantially to the open ends of said tube, said threaded base portions being in overlapping relation to each other with said free end portion of said longitudinally flexible flap disposed therebetween, said base portion of one of said bulbs being exposed through said access opening, and the length of said free end portion of said longitudinally flexible flap being greater than the width of said one wall of said tube.

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References Cited in the file of this patent

UNITED STATES PATENTS

Number	Name	Date	
1,130,230	Willets -----	Mar. 2, 1915	15

Number
1,670,498
1,888,855
1,976,403
2,084,922
2,097,757
2,197,510

10	Number
	241,097
	383,281
	433,595
	609,848

6

Name	Date
Einson -----	May 22, 1928
Fuller -----	Nov. 22, 1932
Kasser -----	Oct. 9, 1934
Sidebotham -----	June 22, 1937
Deike -----	Nov. 2, 1937
Ringler -----	Apr. 16, 1940

FOREIGN PATENTS

Country	Date
Great Britain -----	Oct. 15, 1925
Great Britain -----	Oct. 31, 1932
Great Britain -----	Aug. 16, 1935
France -----	May 22, 1926