July 13, 1954 F. FASELT 2,683,801

CONTRACTIBLE LAMP SHADE

Filed May 19, 1953

Fig 1.

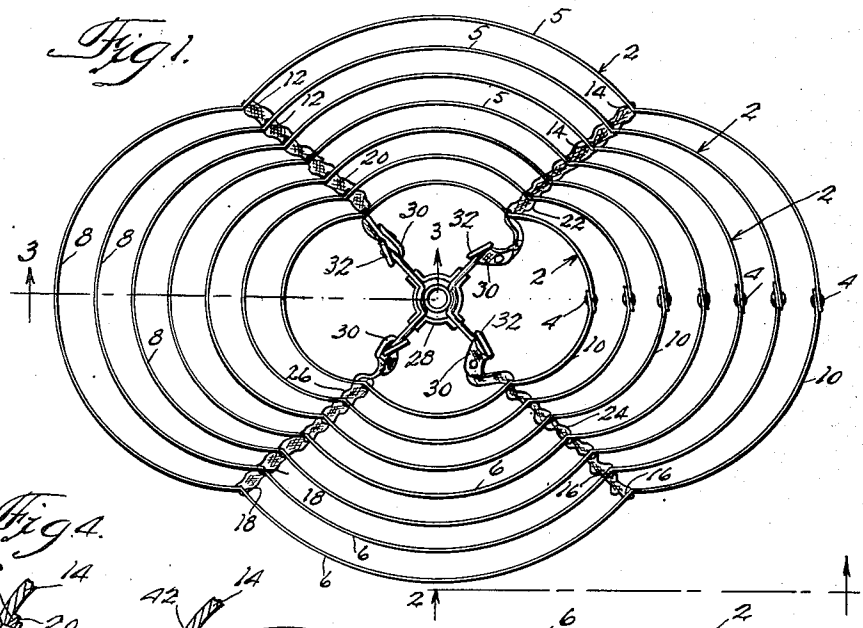


Fig 4.

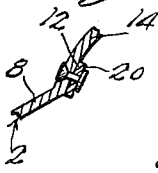


Fig 5



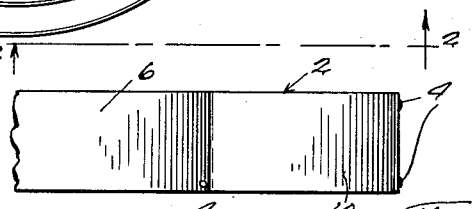
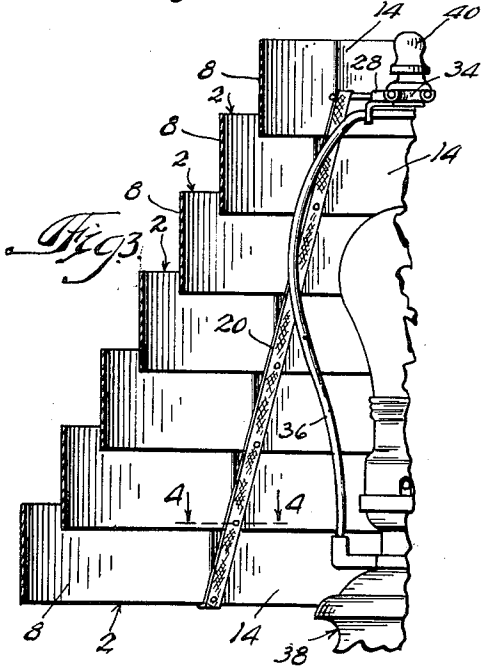


Fig 2.

Fig 3.



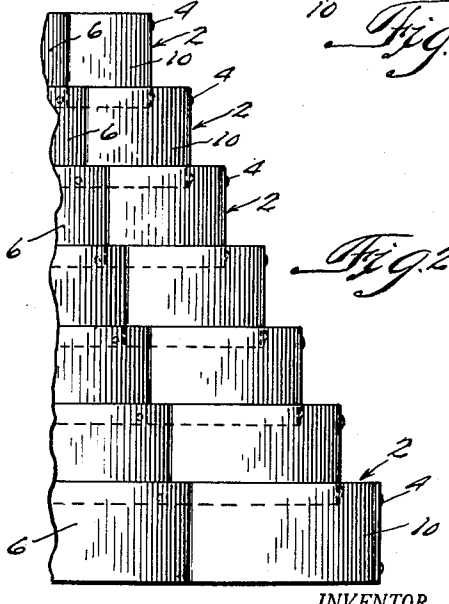


Fig 2A.

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CONTRACTIBLE LAMP SHADE

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2 Claims. (Cl. 240—108)

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This invention relates to lamp shades and more particularly to a collapsible shade wherein telescoped bands are flexibly interconnected for movement to open position when the shade is in use and for movement to closed or collapsed position when the shade is stored.

In prior art devices the bands are generally interconnected by metallic fittings or bead chains which are not only expensive but increase production costs in that they require the bands to be formed with openings and slits. Such openings and slits are unsightly and tend to weaken the bands.

Furthermore, metallic fittings and particularly chains tend to rattle against the band and abrade them during storage and shipment. It has also been found that the connections between such metallic fittings or chains and their supporting annulus require removal of the annulus in order to clean and replace the shade.

A primary object of the present invention is to devise a shade such as above described which is of economical construction and which is formed and arranged to completely conceal the connections between the bands.

A more specific object of the invention is to interconnect the bands by ribbons riveted at corners of the bands which may be defined by scallops.

Another object of the invention is to connect the ribbons to the bands by riveting above the lower edges thereof, to completely conceal the ribbons when the shade is expanded in use.

Still another object of the invention is to facilitate removal of the shade from a lamp to accommodate cleaning of the shade or replacement thereof by a shade of a different color.

The foregoing and other objects of the invention will become apparent from a consideration of the following specification and the accompanying drawings, wherein

Figure 1 is a plan view of the novel shade in collapsed or closed position;

Fig. 2 is a fragmentary side elevational view taken on the line 2—2 of Fig. 1;

Fig. 2A is a view similar to Fig. 2, with the shade in open or expanded position;

Fig. 3 is a sectional view on the line 3—3 of Fig. 1;

Fig. 4 is a sectional view on the line 4—4 of Fig. 3; and

Fig. 5 is a sectional view similar to Fig. 4 but showing a slight modification.

Describing the invention in detail, a plurality of continuous bands 2 are arranged in telescopic

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relation, each of which bands is smaller in periphery than the adjacent outer band so that all of the bands may nest loosely, one within the other, as shown in the closed position of Fig. 2, or upon suspension of the innermost band, as hereinafter described, the bands may open to the position shown in Figs. 2A and 3.

Each band is preferably formed of a continuous strip of metal or other suitable material, the ends of which strip are riveted together as at 4. The bands may be shaped to form any desired figure, but, as illustrated, they have been bent to scalloped configuration, as seen in plan view (Fig. 1). Thus, each band as shown comprises a pair of lateral scallops 5 and 6 as well as a pair of end scallops 8 and 10.

Each lateral scallop 5 is provided on its inner surface, at the ends thereof, with seats 12 and 14 facing diagonally opposed seats 16 and 18 of the other lateral scallop 6 of the same band 2.

Each seat 12 is approximately parallel with the seat 16 of the same band 2 and is also approximately parallel with the seats 12 and 16 of the other bands 2 for a purpose hereinafter described. Likewise, each seat 14 is approximately parallel to the seat 18 of the same band, and is also approximately parallel to the seats 14 and 18 of the other bands.

The bands 2 are interconnected by four ribbons 20, 22, 24 and 26. The ribbon 20 is riveted to the seats 12 of the respective bands; the ribbon 22 is riveted to the seats 14 of the respective bands; the ribbon 24 is riveted to the seats 16 of the respective bands; and the ribbon 26 is riveted to the seats 18 of the respective bands.

As best seen in Fig. 3, the ribbons are riveted to their respective seats above the lower edges of the bands, and the upper ends of the ribbons are attached to a support, preferably in the form of a ring or annulus 28 by loops 30 of the ribbons loosely receiving hooks 32 carried by the ring 28.

The ring 28, as shown in Fig. 3, is adapted to receive a threaded stud 34 of a conventional harp 36 of a lamp 38, said stud being provided with a decorative nut 40 to hold the ring 28 on the stud 34.

Thus it will be understood that when the novel lampshade is supported by a lamp 38, the bands drop to their open position shown in Figs. 2A and 3. In this position the ribbons assume their straight-line position without any twisting due to the configuration and arrangement of seats 12, 14, 16 and 18. Also the riveting of the ribbon to these seats above the lower edges of the bands 2 accommodates complete concealment of the rib-

bons by the bands **2** in the expanded position thereof, as best seen in Fig. 2A.

Furthermore, the configuration of the bands not only affords convenient seats for the ribbons but also conceals the riveted connections thereof to the bands.

As best seen in Figs. 1 and 2, when the novel lamp shade is to be stored, as for packaging, the bands **2** nest loosely within each other to afford a compact unit. Under these conditions the ribbons, being of soft, preferably non-extensible material, such as plastic, fibre or cloth, do not scratch or rattle against the bands and thus protect them from scratches and abrasions.

Also, as best seen in Figs. 1 and 3, the novel shade may be quickly dissembled from the annulus **28** without disconnecting the nut **40** from the stud **34** as may be desired when cleaning or replacing the shade with one of a different color. This removal is accomplished by slipping the loops **30** off the hooks **32** whereupon the shade may be collapsed, as in Figs. 1 and 2, or may be turned inside-out for cleaning.

Fig. 5 is a view corresponding to that of Fig. 4 but showing a different attachment of the ribbons to the bands **2**, as by riveting at V-shaped faces **42** of corners defined by the bands. Such attachment may be used in lamp shades of various shapes as well as the scalloped design illustrated in the drawings.

While the present invention has been explained and described with reference to particular contemplations of structure and detail, its concept is not to be restricted thereby except as indicated in the hereinafter appended claims.

What is claimed as new and desired to be secured by Letters Patent of the United States is as follows:

1. In a lamp shade having a generally vertically tapered, stepped form and designed to be positioned in surrounding horizontal light shielding relation around the light source of a table lamp and the like, the combination of a plurality of

concentric bands of thin, strip material radially spaced apart from one another for passage of light vertically between adjacent bands, and through the smallest band, and vertically offset from one another to define such vertically tapered, stepped form of the shade and to afford horizontal light shielding, the combination of a plurality of untwisted flat ribbons of flexible substantially non-expansible material, said ribbons extending outwardly and downwardly in twist-free fashion and at spaced intervals about the bands in diametrically opposed pairs, each of said ribbons secured by a rivet to all of said bands, at a point on each of said bands along its inner surface, said points vertically displaced from the lower edges of the bands such as to provide maximum concealment of said ribbons by said bands and to enable said ribbons to extend in substantially straight lines from end to end, an annulus located concentrically of said bands, said annulus provided with a plurality of outwardly extending arms, each of said arms terminating in an open hook, each of said ribbons terminating at its upper end in a loop adapted to loop over one of said hooks, whereby said bands may be suspended from said hooks by means of said ribbons and said bands may hang concentrically of one another and said ribbons may extend in a straight line and untwisted.

2. The combination in accordance with claim 1 wherein said bands each includes a plurality of scallops, and wherein seats for said rivets are provided at the junctions of said scallops.

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