Jan. 17, 1928. **1,656,667**

W. J. FINKENZELLER

COMBINED CHAIN PENDANT AND COUPLER

Filed May 28 1927

Fig. 1.

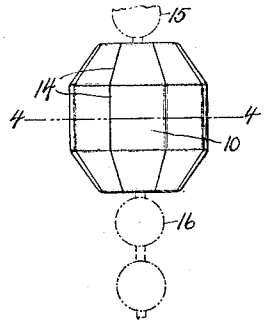


Fig. 2.

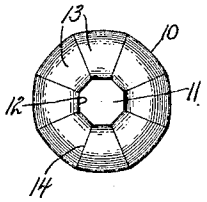


Fig. 3.

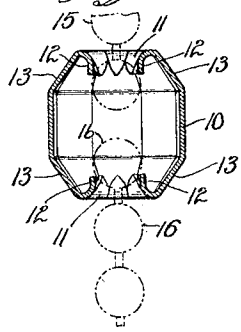


Fig. 4.

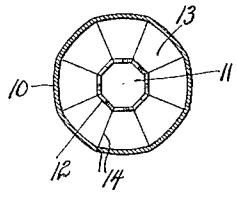


Fig. 5.

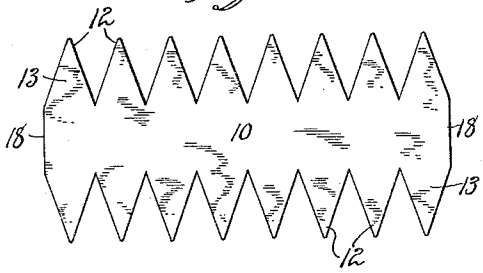


Fig. 7.

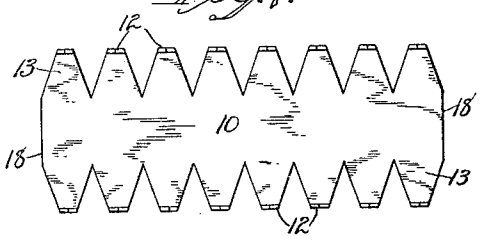


Fig. 6.

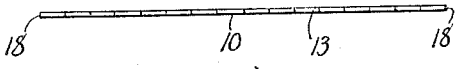


Fig. 8.

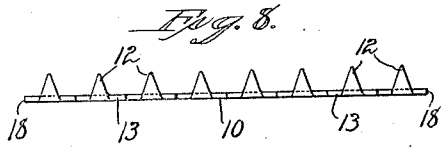
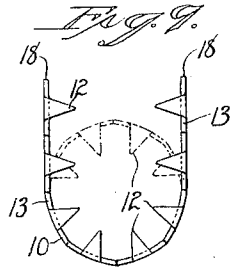


Fig. 9.



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Patented Jan. 17, 1928. 1,656,667

UNITED STATES PATENT OFFICE.

WILLIAM J. FINKENZELLER, OF WATERBURY, CONNECTICUT, ASSIGNOR TO CHASE COMPANIES INC., OF WATERBURY, CONNECTICUT, A CORPORATION.

COMBINED CHAIN PENDANT AND COUPLER.

Application filed May 28, 1927. Serial No. 195,099.

My invention relates to an improved, combined chain-pendant and coupler particularly adapted for use in conjunction with the bead pull-chains of electric fixtures, but not so limited, the object being to produce a convenient and attractive chain-pendant or terminal adapted also to be used as a chain-coupler when it is desired, for any reason, to increase the length of the chain.

With these ends in view, my invention consists in a ball-like, combined chain-pendant and coupler made from a single piece of metal and characterized by having, at its respective ends, co-axial bead-receiving openings surrounded by inwardly-turned, yielding, bead-gripping fingers and having a seam intersecting the said openings.

My invention further consists in a combined pendant and coupler characterized as above and having certain details of construction as will be hereinafter more fully described and pointed out in the claims.

In the accompanying drawings:

Fig. 1 is a view in side elevation of my improved, combined chain-pendant and coupler;

Fig. 2 is a plan view thereof;

Fig. 3 is a view thereof in vertical, central section;

Fig. 4 is a view thereof in transverse section on the line 4—4 of Fig. 1;

Fig. 5 is a view of the blank from which my improved, combined chain-pendant and coupler is formed;

Fig. 6 is an edge view thereof:

Fig. 7 is a view of the blank after the tips of its fingers have been upturned;

Fig. 8 is an edge view thereof; and

Fig. 9 is an edge view of the blank, after its preliminary bowing, showing also, in broken lines, the next stage in the forming operation, in which the blank is brought into tubular form, the next step being represented by Fig. 1.

My improved, combined, ball-like chain-pendant and coupler, as herein shown, consists of a central body-portion 10 having, at its upper and lower ends, co-axial openings 11 enclosed by the inwardly-turned ends 12 of yielding, tapered fingers 13 symmetrically formed upon the oppoiste edges of its central body-portion 10, the said co-axial openings being intersected by a single seam 14, by which the coupler is expanded when it is desired to remove it from the chain or chains.

The pendant thus produced may be used either end uppermost in the manner of such pendants, which are commonly applied to the bead-chains 15 of pull-chain electric-light fixtures. If desired to extend the length of any bead-chain, the upper bead of another length of chain 16 is forced into the lowermost of the two co-axial holes of the pendant. If desired to remove the pendant either from one or two chains, it is only necessary to insert a sharp instrument, such as a knife, into the vertical seam 14, which is formed by the abutting ends 18 of the blank when the same has been formed up.

In producing my pendant, I first cut a flat blank, such as shown in Figs. 5 and 6, from a single piece of suitable sheet-metal. This blank is next subjected to the action of dies, whereby the ends 12 of its tapered fingers 13 are bent upward at a substantial right angle to the plane of the blank, as shown in Figs. 7 and 8. The partly-formed blank of Figs. 7 and 8 is bent into U-shaped form, as shown by full lines in Fig. 9. The blank is then subjected to a further forming operation to bring it into the tubular form indicated by broken lines in the same figure. The next operation causes the fingers to converge, as shown in Figs. 1 to 4 inclusive, and produces the co-axial, bead-receiving holes 11 intersected by the seam 14, the pendant now being of ball-like shape.

I claim:

1. A combined chain-pendant and coupler, consisting of a single piece of sheet-metal shaped to form a hollow ball having co-axial, bead-receiving openings surrounded by inwardly-turned yielding bead-gripping fingers and having a seam extending from end to end and intersecting the said co-axial, bead-receiving openings through which the beads of a bead-chain are forced into the ball.

2. A combined chain-pendant and coupler,

consisting of a single piece of sheet-metal shaped to form a hollow ball comprising a central body-portion and two symmetrically-arranged groups of tapered fingers, the ends of which are bent at substantially a right angle and yieldingly enclose two co-axial, bead-receiving openings in the ends of the ball, which is traversed by a seam intersecting the said openings and formed by the abutment of the ends of the metal from which the article is produced.

In testimony whereof, I have signed this specification.

WILLIAM J. FINKENZELLER.