C. W. ABBOTT.

CARTON FOR FLEXIBLE CONDUITS.

APPLICATION FILED JAN. 26, 1921.

1,431,352. Patented Oct. 10, 1922.

Fig. 1

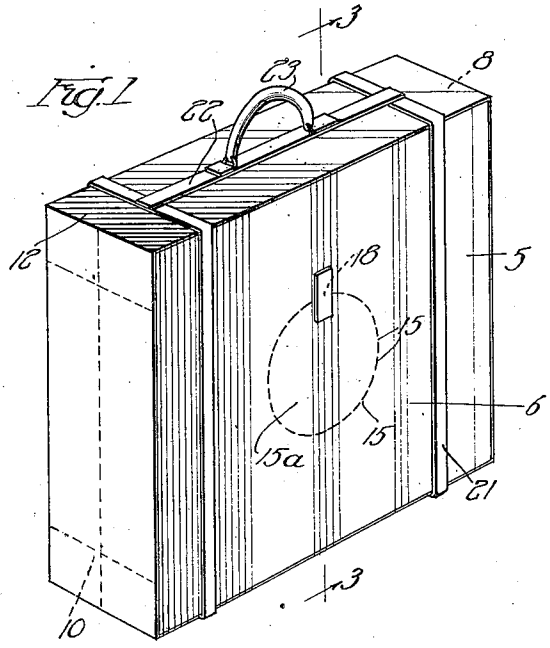


Fig. 3

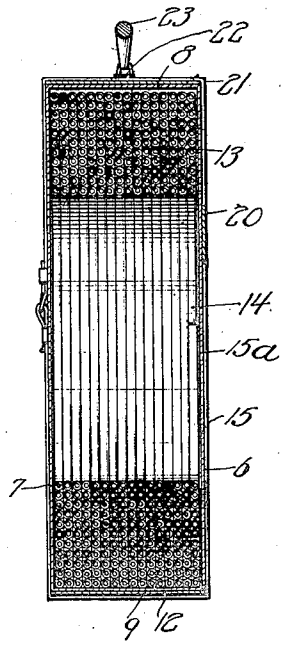
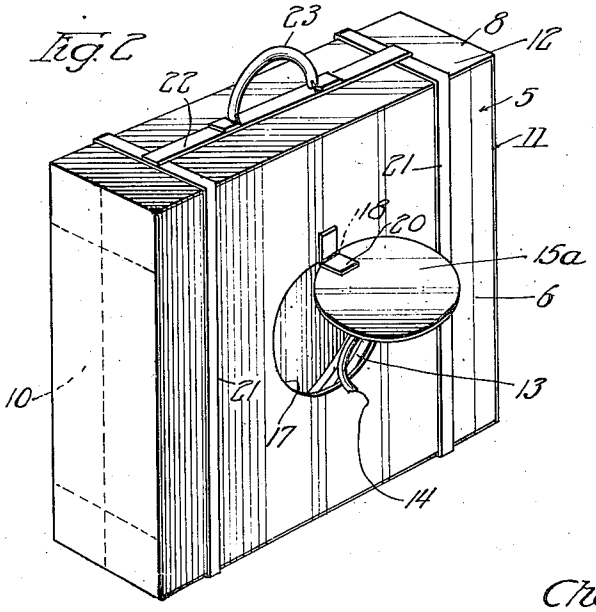


Fig. 2



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Patented Oct. 10, 1922. 1,431,352

UNITED STATES PATENT OFFICE.

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CARTON FOR FLEXIBLE CONDUITS.

Application filed January 26, 1921. Serial No. 439,928.

To all whom it may concern:

Be it known that I, CHAUNCEY W. ABBOTT, a citizen of the United States, and resident of Hartford, in the county of Hartford and State of Connecticut, have invented a certain new and useful Improvement in Cartons for Flexible Conduits, of which the following is a full, clear, concise, and exact description, reference being had to the accompanying drawing, forming a part of this specification.

This invention relates to cartons for flexible conduit, and more particularly to that type of conduit which is constructed by interweaving strands of cotton or other suitable material with a stiffening helix of twisted, or folded, paper.

It is the usual practice to supply conduit of this type in coils, each coil containing a certain quantity of conduit. These coils are sometimes provided with a covering to protect the conduit from injury. Heretofore, it has been necessary to destroy this covering when the conduit was to be used. Generally, only a comparatively short length of conduit is withdrawn from the coil at any one time, the remainder of the conduit being left without any protection, and therefore exposed to injury during subsequent transportation, or when it is handled about the job in which the conduit is to be used. As the danger of injury to the conduit is greater when the coil is handled about the job than when the conduit is transported, it is apparent that the coverings heretofore employed afford comparatively little protection.

An object of my invention is to provide a carton adapted to contain and protect a coil of the aforesaid conduit during transportation, the carton having marked on one of its side walls a portion to be removed to provide an opening through which any desired length of conduit may be unwound, and withdrawn from the coil, leaving the remainder of the coil intact, and protected by the carton.

This and other objects of my invention will be more clearly pointed out as the following description progresses, reference being had to the accompanying drawing, wherein—

Figure 1 is a perspective view of a carton embodying the novel features of my invention;

Figure 2 is a perspective view of the carton illustrating the manner in which flexible conduit is withdrawn from the coil within the carton, and

Figure 3 is a section taken on line 3—3 of Figure 1, looking in the direction of the arrows.

Similar characters of reference indicate similar parts throughout the several views.

In the drawing, 5 indicates a carton preferably made of cardboard, said carton 5 having side walls 6 and 7, a top wall 8 and a bottom wall 9. The ends 10 and 11 of the carton 5 are closed by flap portions of the walls 6, 7, 8 and 9, the flaps being folded over in a well-known manner. To securely seal the carton 5, I preferably provide a strip 12 of adhesive tape, which entirely covers the outer sides of the walls 8 and 9 and the ends 10 and 11.

As shown in Figs. 2 and 3, the carton is adapted to envelop a coil of flexible conduit, a coil of flexible conduit being indicated at 13. The coil 13 is formed by winding the conduit upon a drum so as to form a ring having each loop disposed in a plane substantially normal to the axis of the ring. Withdrawal of the drum from the coil permits the conduit to be unwound from the inner side of the ring. The inner end of the conduit is indicated at 14.

The carton 5 as above described is adapted to protect the conduit from injury, and to prevent entangling of the conduit when it is being withdrawn from the coil.

To permit the withdrawal of any quantity of conduit without first destroying the carton, I indicate by means of a plurality of slits 15, or other suitable markings, in or on the wall 6, a portion 15^a of said wall 6 adapted to be partially or entirely cut away from the surrounding wall material. The resulting aperture is shown at 17, and is so shaped that the conduit will not catch in a corner or projection of the wall around said aperture. As shown in Fig. 2, that portion of the wall which is removed from the aperture 17 need not be cut entirely away, but may be left attached to the side wall by a hinge strip as at 18, thus making a door member of the portion 15^a. In the preferred construction of my invention, I reinforce the hinge 18 by a strip 20 of flexible material.

It is readily apparent that the inner end

14 of the conduit may be drawn through the aperture 17 and any desired length of conduit unwound and withdrawn from the coil. After a sufficient quantity of conduit has been obtained, the aperture 17 may be closed by the door member 15a.

I find it convenient in some instances to provide a shawl strap whereby the carton may be carried. I have shown a shawl strap comprising a pair of straps 21—21, disposed around the carton, connected by a strap 22 having a handle 23, secured thereto.

Having thus described one form of my invention, what I claim as new and desire to secure by Letters Patent of the United States, is:

A package comprising a circular coil of flexible conduit, a substantially rigid and permanently closed cardboard container for said coil comprising side walls extending at right angles to the axis of said coil and end walls connecting said side walls, all of said walls closely confining the adjacent convolutions of said coil due to the fact that the coil convolutions have an inherent tendency to expand, one of said side walls being provided on its outer surface with indicia circumscribing a portion of said wall, the center of said circumscribed portion being in substantial alignment with the axis of said coil, the inner end of the coil lying adjacent said circumscribed portion.

In witness whereof, I hereunto subscribe my name this 17th day of January, 1921.

CHAUNCEY W. ABBOTT.

Witnesses:
C. E. RUTHERFORD,
CORA LEE FISHER.