April 6, 1943. C. E. BOWERS 2,315,685

CABLE CONNECTOR

Filed April 1, 1940

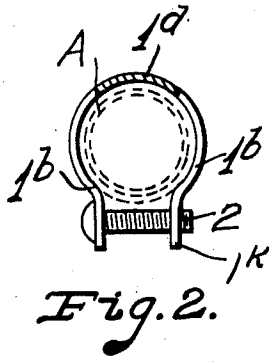


Fig. 2.

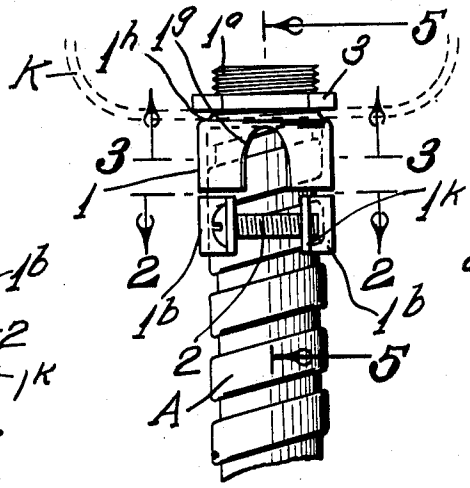


Fig. 1.

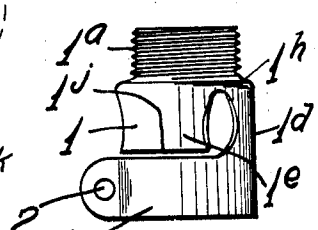


Fig. 4.

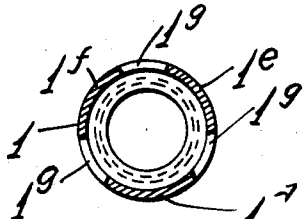


Fig. 3.

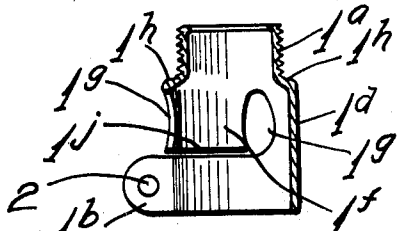


Fig. 5.

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# UNITED STATES PATENT OFFICE

2,315,685

## CABLE CONNECTOR

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Application April 1, 1940, Serial No. 327,227

2 Claims. (Cl. 285—6.5)

My invention relates to a cable connector, and the objects of my invention are:

First, to provide a cable connector of this class the body of which is formed from one piece of flat sheet metal;

Second, to provide a cable connector of this class which is exceedingly yieldable, strong and unbreakable;

Third, to provide a cable connector of this class which is so arranged that it will maintain a very secure hold on a cable positioned therein;

Fourth, to provide a cable connector of this class which is very neat, compact and easy to install;

Fifth, to provide a cable connector of this class which is provided with side wall openings therein for suitable visibility, when positioning the end of a cable therein;

Sixth, to provide a cable connector of this class which is very simple and economical of construction, efficient, durable and which will not readily deteriorate or get out of order;

Seventh, to provide a novel cable connector.

With these and other objects in view as will appear hereinafter, my invention consists of certain novel features of construction, combination and arrangement of parts and portions as will be hereinafter described in detail and particularly set forth in the appended claims, reference being had to the accompanying drawing and to the characters of reference thereon which form a part of this application in which:

Figure 1 is a side elevational view of my cable connector shown connected with a portion of an outlet box and a conventional cable showing the outlet box by dash lines and the cable by solid lines; Fig. 2 is a sectional view taken from the line 2—2 of Fig. 1 showing the cable by dash lines; Fig. 3 is a sectional view taken from the line 3—3 of Fig. 1 showing the cable by dash lines; Fig. 4 is a side elevational view of my cable connector shown at a right angle to that of Fig. 1 of the drawing; and Fig. 5 is a sectional view of my cable connector taken from the line 5—5 of Fig. 1 omitting the cable and outlet box as shown in Fig. 1 of the drawing.

Similar characters of reference refer to similar parts and portions throughout the several views of the drawing.

In the formation of my cable connector, I have provided a one piece cable connector member 1 which is provided with a hollow screw threaded portion *1a* on its one end and integral clamp portions *1b* on its opposite end. It will be noted that these clamp portions *1b* are integral with a segment portion *1d* which is integral with the screw threaded portion *1a*. These clamp portions *1b* are arranged in opposed relation to each other as shown in Fig. 2 of the drawing and are arranged to be forced together by means of the screw 2. It will be noted that these clamp portions *1b* when adjusted relatively with the cable A shift in concentric relation with the screw threaded portion *1a* and the cable A, as shown best in Figs. 1 and 2 of the drawing. Integral with the screw threaded portion *1a* are segment portions *1e* and *1f*. These segment portions *1e* and *1f* are substantially the same dimensions as the segment portion *1d* which is integral with the clamp portions *1b*. Intermediate the segment portions *1d*, *1e* and *1f* are open spaces *1g* which provide visibility when inserting the cable A into the cable connector so that a person may readily determine the connected relation of the cable A with the cable connector. At the juncture of the segment portions *1d*, *1e* and *1f* with the screw threaded portion *1a*, I have provided a shoulder portion *1h* which is arranged to abut against the outlet box K as shown by dash lines in Fig. 1 of the drawing when the nut 3 is screw threaded on the screw threaded portion *1a* and is engaging the opposite side of the outlet box portion from the shoulder portion *1h*, all as shown best in Fig. 1 of the drawing. It will be noted that the side edges of the clamp portions *1b* are positioned in slightly spaced relation from the end portions *1j* of the segment portions *1e* and *1f*, as shown best in Figs. 4 and 5 of the drawing. This provides an unobstructed adjustable movement of the clamp portions *1b* in their relation to each other when the screw 2 is tightened forcing said clamp portions *1b* into secure engagement with the cable A at the opposite sides thereof. It will be noted that the end portions *1k* of one of the clamp members *1b* is internally screw threaded and is arranged to engage the outer screw threads on the screw 2, as shown best in Figs. 1 and 2 of the drawing.

Though I have shown and described a par-

ticular construction, combination and arrangement of parts and portions, I do not wish to be limited to this particular construction, combination and arrangement, but desire to include in the scope of my invention, the construction, combination and arrangement substantially as set forth in the appended claims.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent is:

1. In a cable connector of the class described, a cable connector member provided with the combination of a plurality of curved in cross section longitudinally disposed widely spaced segment portions in alignment with the longitudinal axis of said cable connector and opposed clamp portions integral with one of said segment portions.

2. In a cable connector of the class described, a cable connector member provided with the combination of a plurality of curved in cross section longitudinally disposed widely spaced segment portions in alignment with the longitudinal axis of said cable connector and opposed clamp portions integral with one of said segment portions, said clamp portions in transverse slightly spaced relation from the ends of the other segment portions and in alignment therewith, said cable connector member provided with a plurality of relatively wide openings therein intermediate said segment portions and communicating with said clamp portions.

CLAUDE E. BOWERS.