

March 15, 1932.

G. DECOMBE

1,849,977

METAL REEL FOR CABLES

Filed July 22, 1929

2 Sheets-Sheet 1

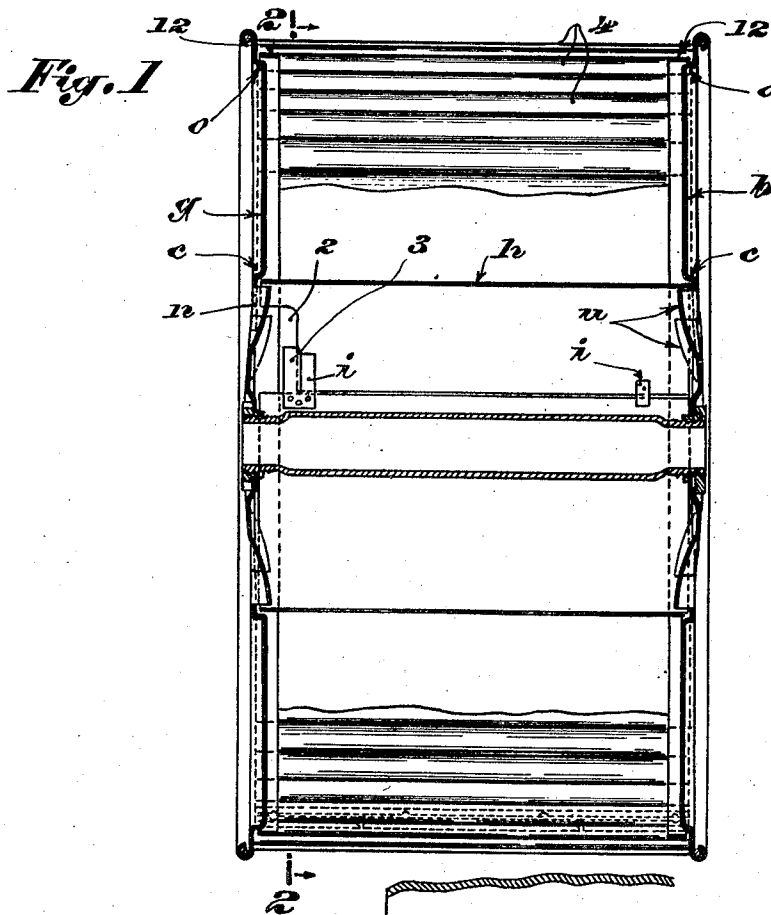
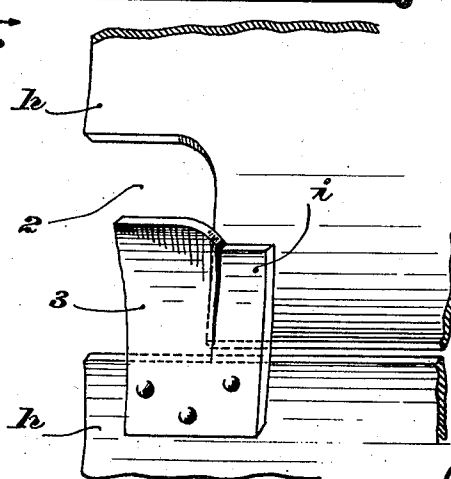


Fig. 3



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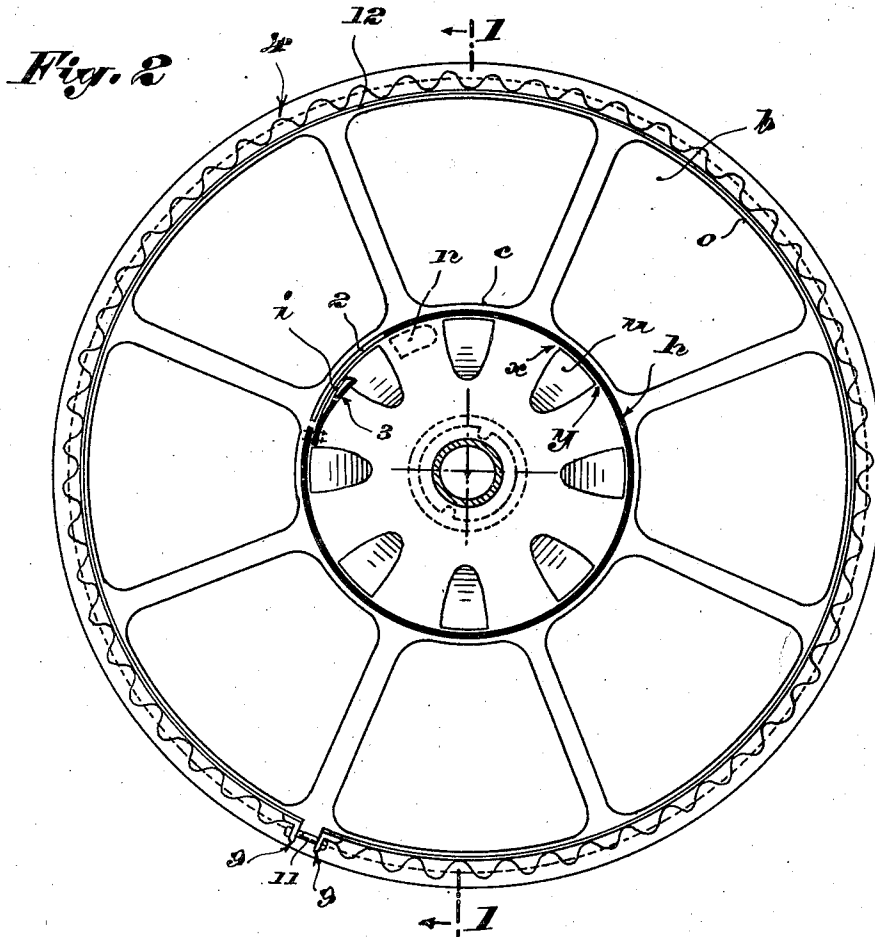


Fig. 5

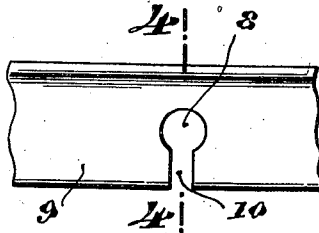
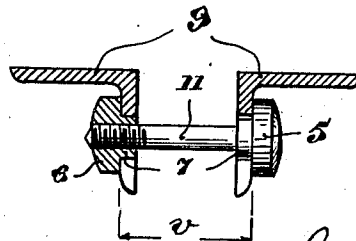


Fig. 4



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UNITED STATES PATENT OFFICE

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METAL REEL FOR CABLES

Application filed July 22, 1929, Serial No. 380,102, and in France October 18, 1928.

This invention relates to improvements in metal reels for cables.

In my prior application Serial No. 55,372 filed September 9, 1925, now Patent No. 1,815,499, I have described a demountable metal reel for cables comprising two steel metal discs held apart by a drum also of sheet metal, the discs being held in position by a single bolt composed of a central tube having a nut at one end and a pin at the other.

The present invention consists in employing the flanges of the reel for supporting the drum, and providing two openings for the passage of the inner end of the cable, one in the central drum having an inclined surface to support the cable without damage and the other in one of the flanges inside the drum, and an arrangement for rapidly applying a corrugated sheet metal cover over the cable held in position by screwed bolts held in recesses.

The invention will be described with reference to the accompanying drawings:—

Fig. 1 is a sectional elevation on line 1—1

Fig. 2.

Fig. 2 is a side view in section on line 2—2

Fig. 1

Fig. 3 is a perspective view of the arrangement for disengaging the inner end of the cable to pass through the central drum.

Fig. 4 is a detail view of the holding bolts for the corrugated sheet metal cover.

Fig. 5 shows the recesses in the cover.

On the discs or flanges *b* and *g* inside the circular spring *c* the sheet is cut at intervals at *x y* in a suitable curve the metal being beaten out from the inner side of the disc and underneath each of these incisions cup-shaped members *u* form projections on the upper edge *x y* upon which the central drum *h* bears.

An opening 2 is formed in the drum through which the inner end of the cable passes. Adjacent to this opening is an inclined surface 3 which is prolonged to the interior of the

reel to extend and support the cable which is thus held at the height of an opening *n* in one of the discs this opening extending into the interior of the drum *h*.

The surface 3 may be formed directly by a tongue *i* of suitable shape which serves as a guide for any displacements of the two ends of the drum *h* (Fig. 3).

The inner end of the cable thus passes through the two openings 2 and *n* and is supported into its passage between them by the surface 3 which prevents damage. After insertion it is cut to the height of the opening *n* hooded and pushed inside the drum *h*.

Finally the protecting cover formed of corrugated sheet 4 rests on spring steel bands 12 placed around the periphery on flanges *o* formed on the discs *b* and *g*.

The method of affixing the two ends of the corrugated sheet will be described as follows:—

Referring to Fig. 4, bolts 5 and nuts 6 each formed with a circular shoulder 7 having a diameter corresponding to that of the hole 8 formed in an angle iron 9 affixed to the ends of corrugated sheet. Each of these holes is formed with a slot 10 (straight, inclined or curved being shown straight in Fig. 5) the size of which corresponds to the diameter of the stem 11 of the bolt 5.

Thus the distance *v* separating the bolt and nut having been suitably adjusted the ends are brought together by pliers or a suitable lever having two arms until the bolt can be dropped into the hole 8 through the slot 10.

The ends of the corrugated sheet are then released and tend to separate bringing the shoulders 7 into the hole 8.

It is therefore impossible to remove the cover without bringing the ends together by use of the aforementioned lever.

It is also impossible to unscrew the nuts 6 owing to the fact that they are smooth and round as is the head 5 and do not offer any engagement for a tool and also due to the

pressure exerted upon them by the corrugated sheet.

As goes without saying and from what has been described the invention is not limited to this method of operation but includes variations for instance, the shoulders 7 may be polygonal or formed with a conical surface to enter the hole 8.

What I claim as my invention and desire to protect by Letters Patent is:—

1. A metallic reel for cables, comprising a pair of discs and a cylindrical drum connecting the discs, each disc being provided on its inner side with inwardly extending concave bosses the outer ends of which engage in the ends of the drum and hold the same, one of the discs also having an opening and the drum also having an opening for the passage of one end of a cable, the drum being further provided on its inner side with a member presenting an inclined surface to maintain the free end of the cable and also with a stop tongue.

2. A demountable reel for cables, comprising a pair of discs, means arranged at the centers of the discs and detachably connected thereto at their centers, and a cylindrical drum also connecting the discs and engaged at its ends in circular coaxial grooves with which the discs are provided, each disc being further provided on its inner side with inwardly extending concave bosses struck up from the disc and at their outer ends bearing against the inner side of the wall of said drum and arranged in the ends thereof.

In witness whereof I have hereunto set my hand.

GEORGES DECOMBE.

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