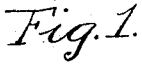


APPLICATION FILED DEC. 18, 1908.

Patented Oct. 20, 1908.
2 SHEETS—SHEET 1.



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CABLE SUPPORT.

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SHEETS-SHEET 2.

901,706.

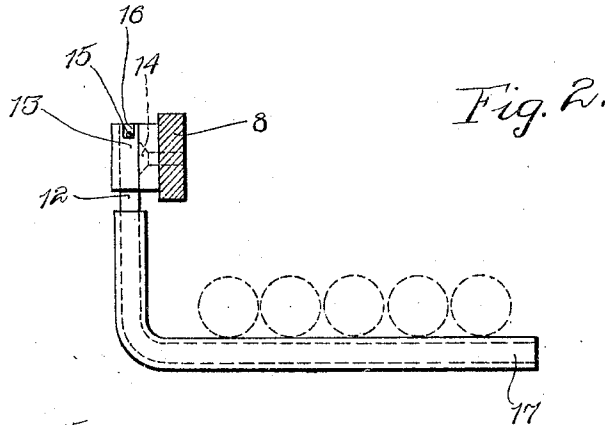


Fig. 2.

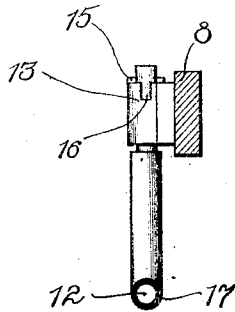


Fig. 3.

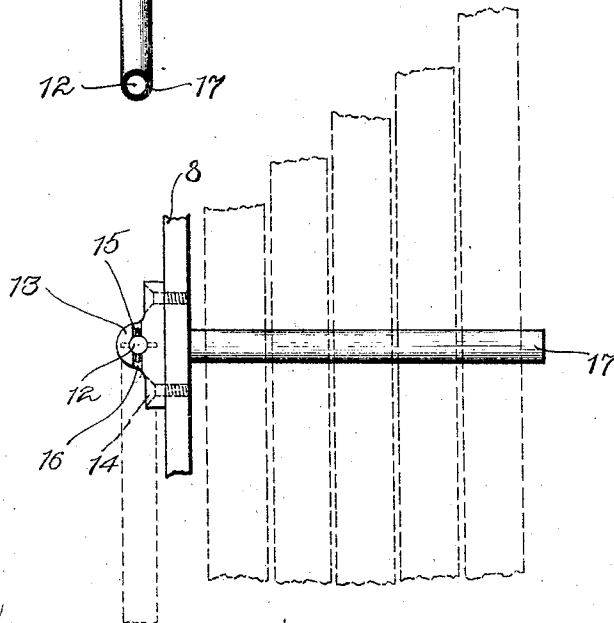


Fig. 4.

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UNITED STATES PATENT OFFICE.

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CABLE-SUPPORT.

No. 901,706.

Specification of Letters Patent.

Patented Oct. 20, 1908.

Application filed December 18, 1906. Serial No. 348,488.

To all whom it may concern:

Be it known that I, ELBERT A. HAWKINS, a citizen of the United States, residing at Baldwin, in the county of Nassau and State of New York, have invented a certain new and useful Improvement in Cable-Supports, of which the following is a full, clear, concise, and exact description, reference being had to the accompanying drawings, forming a part of this specification.

My invention relates to switchboards, more particularly to devices for supporting the cables therein, and its object is to provide an improved construction of this kind whereby the cables may be conveniently supported in proper position and may be released from their supports easily and quickly when it is desired to inspect or repair any of the switchboard apparatus normally disposed in position hidden by the cables.

While it will appear evident that the device of my invention will be employed in various kinds of switchboards and in various parts of any switchboard, and may be employed for supporting any of the cables in a board, for convenience I illustrate and describe my invention as employed to support the cables in a telephone switchboard, and more particularly the devices as shown as supporting those cables which are disposed to the rear of the springjacks in the switchboard. This of course, it will appear evident, is merely for the purpose of facilitating the description of the construction and application of the device of my invention, and as it will appear evident that it may be applied anywhere it is desirable to support cables in a manner as will be described. I do not wish to be limited to the precise application herein described.

I have illustrated my invention in the accompanying drawings in which

Figure 1 is a side view of the switchboard employing my invention, parts being broken away to disclose the construction thereof; Fig. 2 is a detached side view of the supporting device on a larger scale than that shown in Fig. 1; Fig. 3 is a view similar to that of Fig. 2 except that the device has been placed in its abnormal position as will be described; and Fig. 4 is a plan view showing the abnormal position of the supporting bracket in dotted line.

Like reference characters are applied to like parts throughout the various figures.

The switchboard cabinet is shown at 5, 5 and is broken away showing the construction disposed within the same. The cabinet is built about a metal skeleton framework 6, 6, which consists of the various uprights 7, 7 and the cross pieces 8, 8. Springjacks 9, 9 are shown as located at the front of the board and some of the switchboard cables are shown at 10, 10 as being supported by the shelf 11 disposed on the cross pieces 8, 8.

The cable support of my invention consists of a bracket indicated at 12 which is pivoted in a support 13 which may be secured to the framework, for instance the cross pieces 8, by means of the screws 14, 14. As shown in the various figures the bracket or arm 12 is bent through a right-angle whereby the upwardly extending arm may be pivotally disposed in the support 13, while the rearwardly extending arm is adapted for the reception of the various cables to be supported thereby.

In order that the bracket or arm 12 may be properly and rigidly supported in the support 13, it is provided at the upper end of its upwardly extending arm with the cross pin 15 which engages a slot 16 in the support 13, as clearly shown in the various figures. When the pin engages entirely within the slot, as shown in Fig. 2, the bracket or arm 12 is securely locked into place and is rigidly supported whereby it may properly support the various cables. As these cables extend through the length of the switchboard they necessarily, when thus supported, interfere with access to the switchboard apparatuses hidden thereby, for instance, as shown in the drawings, the springjacks 9, and as it is often desirable and sometimes necessary to inspect and repair these apparatuses it becomes necessary to temporarily remove the cables from their normal position at that point where access to the apparatuses is desired. These supports of my invention are disposed at convenient intervals along the length of the switchboard so that the entire length of the cables may be properly supported and, as will be described, are of such construction that they may when it is desired release the cables whereby they may temporarily be lowered and access gained to the springjacks hidden thereby. When it is desired to temporarily lower the cables, as has been described, the bracket arm 12 is raised slightly so that the pin 15 is brought out of engagement with the slot 16 thereby leaving the

bracket free to turn on the support. When it is thus turned about one-quarter of a revolution, when it will assume approximately the position shown in Fig. 3 and in dotted lines in Fig. 4, it will no longer support the cables and they may be lowered so that the springjacks hidden thereby when the cables are in their normal position, may be easily reached and inspected or repaired.

- 10 In order to prevent wear and tear upon the cables and for other reasons apparent to those skilled in the art, the insulating tube 17, of rubber or similar material, is forced over the arm 12 as indicated in the drawings.
- 15 Thus it is evident that with the construction herein disclosed and described the cables may be conveniently and properly supported in their normal position and may when it is desired to reach any of the switchboard ap-
- 20 paratuses disposed in position hidden by the cables, be lowered temporarily, readily and quickly and without disarranging the cables or the associated parts in any way.

While I have herein shown and described 25 but one embodiment and a single application of my invention, it is evident that changes may be made in the construction thereof by those skilled in the art and may be applied to different uses without departing from the spirit and scope of my invention. I do not 30 wish to be limited, therefore, to the precise construction and application herein shown.

I claim as new and desire to secure by Letters Patent:

- 35 1. A swinging bracket consisting in a supporting block, a bent bar adapted to extend vertically through such block and horizontally below such block, the vertical portion of such bar conformed to rotate in such 40 block, means for supporting such bar from such block, means for preventing rotation of such bar in such block, and means for releasing such bar from such block to permit rotation of such bar and means for normally preventing the removal of the bar from the 45 block.

2. A swinging bracket consisting in a sup-

porting block, a bent rod adapted to extend vertically through such block and horizontally below such block, the vertical portion 50 of such bar conformed to rotate in such block, and means for supporting such bar from such block, such means adapted to prevent rotation of such bar in such block when such bar is in a desired angular position, 55 such means permitting rotation of such bar in such block when such bar is in another angular position and normally preventing the removal of the bar from the block.

3. A swinging bracket consisting in a supporting block, a bent bar adapted to extend vertically through such block and horizontally below such block, the vertical portion of such bar conformed to rotate in such block, means for supporting such bar from 60 such block, such means adapted to prevent rotation of such bar in such block when the bar is in a desired angular position, and means for releasing such bar from such block consisting in lifting the bar therein such sup- 70 porting means normally preventing the removal of the bar from the block and adapted to be detached from the bar to permit the removal of the bar from the block.

4. A swinging bracket consisting in a supporting block, a round bent bar adapted to extend vertically through such block and horizontally below such block, a removable 80 pin extending through the upper end of the vertical portion of such bar, and a slot in the face of the block adapted to cooperate with such pin such pin serving normally to support the bracket and prevent the removal of the bar from the block and also adapted by its removal from the bar to permit the re- 85 moval of the bar from the block.

In witness whereof, I hereunto subscribe my name this 8th day of November A. D., 1906.

ELBERT A. HAWKINS.

Witnesses:

ROMEYN B. ZABRISKIE,
W. M. C. SMITH.