

L. C. PAGE.
ATTACHMENT FOR TELEGRAPH APPARATUS.
APPLICATION FILED JULY 30, 1913.

1,093,725.

Patented Apr. 21, 1914.

Fig. 1

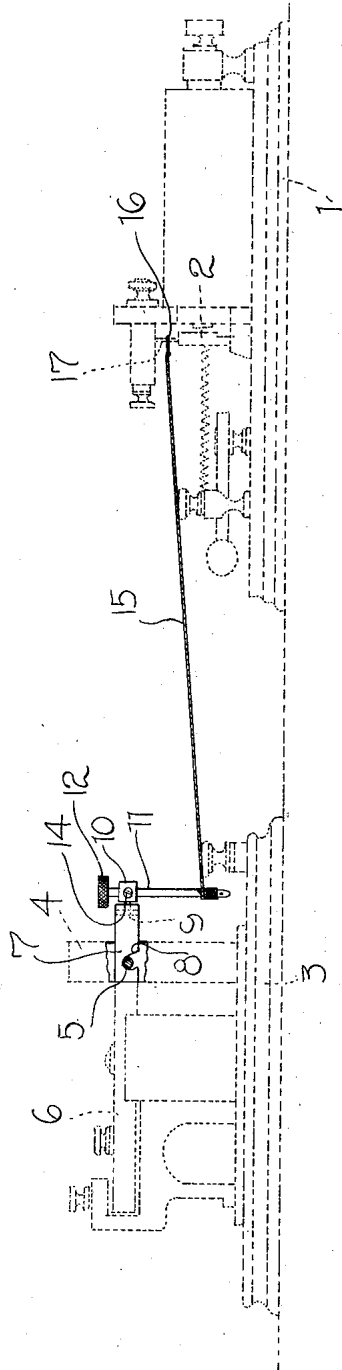


Fig. 2

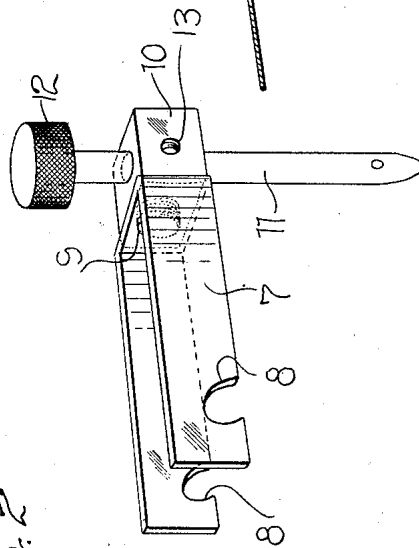
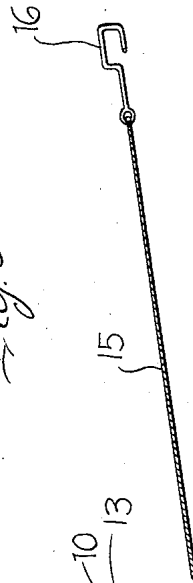


Fig. 3



Witnesses

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To all whom it may concern:

Be it known that I, LYMAN C. PAGE, a citizen of the United States, residing at Decoto, in the county of Alameda and State of California, have invented certain new and useful Improvements in Attachments for Telegraph Apparatus, of which the following is a specification, reference being had to the accompanying drawings.

10 This invention relates to new and useful improvements in telegraphic instruments and more particularly to an attachment to relays and sounders and the primary object of the invention is to provide an attachment
15 which will eliminate the use of the local battery which is usually used for connection between the relay and the sounder of a telegraph apparatus.

20 A further object of the invention resides in providing a mechanical connection between the aforesaid devices for the elimination of the usual electrical connection therebetween and a still further object resides in providing a device which is capable of various adjustments to accommodate instru-
25 ments of various sizes.

30 Still another object of the invention resides in providing a device which is simple and durable in construction, inexpensive to manufacture and one which will be very efficient and useful in operation.

35 With these and other objects in view, the invention consists in the novel features of construction, combination and arrangement of parts as will be hereinafter referred to and more particularly pointed out in the specification and claims.

40 In the accompanying drawing forming a part of this application, Figure 1 is a side elevation with parts broken away, showing my device applied to use. Fig. 2 is an enlarged perspective view of the part of the attachment for connection with the sounder; and Fig. 3 is a fragmentary perspective view
45 of the flexible connection with the hook thereon attachable to the relay.

50 In describing my invention, I shall refer to the drawing in which similar reference characters designate corresponding parts throughout the several views and in which 1 indicates a relay of the usual or any preferred type, such as is used in connection with telegraph apparatus, having the usual armature 2 in connection therewith and 3 indicates a sounder of the usual or any preferred type used in connection with such de-

vices. This sounder is of the type having a U-shaped support 4 thereon between the arms of which, on a pin 5, is pivotally supported an armature 6.

60 My invention primarily contemplates the provision of a means for operating the sounder from the relay, by a mechanical means and thereby eliminating the usual electrical means used in connection there-
65 with. To this end, a substantially U-shaped metal frame 7 is provided, the arms of which having the inclined notches 8 formed therein, adjacent the free ends of the same. This frame is designed to receive the ineffective
70 projecting end of the armature lever 6 therein and the notches 8 of said frame are arranged to receive the pin 5 therein when said frame is positioned at the end of the armature. Threaded into an opening in the
75 base portion of the U-shaped frame 7, is a shank 9 which is formed on a block 10, said block forming substantially an adjustable extension on said frame 7. Loosely dis-
80 posed through an opening extending completely through said block 10 and arranged substantially vertically, is a pin 11, the upper end of which is provided with a knurled head 12. A threaded channel or opening 13
85 formed in one side of the block communicates with the opening through which the pin 11 is disposed and an adjusting screw 14 engaged with this opening 13 is adapted for
90 engagement with the pin 11 to retain the latter in any adjusted position in the block 10. A flexible connection 15 is provided, the one end of which is engaged with an opening in the lower end of the pin or stem
95 11 and wound slightly therearound and the opposite or free end of said connection has a hook 16 engaged therewith. This hook is adapted to be engaged with an upstanding pin or projection 17 forming the point on the armature 2 of the relay.

100 In operation, the frame 7 is first applied to the pin 5 and the block 10 adjusted thereon so that the shank 9 engages the end of the armature 6 and the pin 11 disposed in a vertical position. The hook on the flexible connection 15 is then engaged with the
105 projection on the armature 2 of the relay and said pin 11 properly adjusted so as to take up the slack in said connection. Having thus properly set up the device for use, it will be seen that as the armature on the
110 relay is actuated, the same will cause the armature of the sounder to be actuated and

the desired result thereby accomplished. It will be seen that this device, being a mechanical one, eliminates the necessity of using the battery system which is usually provided for the connection between the relay and sounder, in telegraphic apparatus.

From the foregoing it will be seen that I have provided a simple and efficient means for carrying out the objects of the invention and while I have particularly described the elements best adapted to perform the function set forth, it is obvious that various changes in form, proportion and in the minor details of construction may be resorted to without departing from the spirit or sacrificing any of the principles of the invention.

Having thus described this invention, what is claimed is:—

1. In a telegraphic apparatus, the combination with a relay and a sounder, each having an armature suitably arranged in connection therewith; of a member removably engaged with the armature of the sounder, a pin adjustably connected to said member and depending to a plane below the arma-

ture, and a flexible connection engaged with said pin and also engaged with the armature of the relay, whereby to actuate the armature of the sounder upon the actuation of the latter armature.

2. In a telegraphic apparatus, the combination with a relay and a sounder, each having an armature suitably arranged in connection therewith; of a U-shaped frame engaged with the ineffective end of the armature of the sounder, a member removably secured to the yoke portion of said U-shaped frame, a pin adjustably secured to said member and depending vertically therefrom to a plane below said last mentioned armature, and a flexible connection engaged with the lower end of said pin and the armature of said relay to actuate the armature of the sounder upon the actuation of the latter armature.

In testimony whereof I hereunto affix my signature in the presence of two witnesses.

LYMAN C. PAGE.

Witnesses:

DANIEL O'SULLIVAN,
HECTOR J. CHAGNON.