

April 26, 1932.

S. KERNER

1,855,602

CRIMPING TOOL

Filed Sept. 30, 1930

Fig. 2

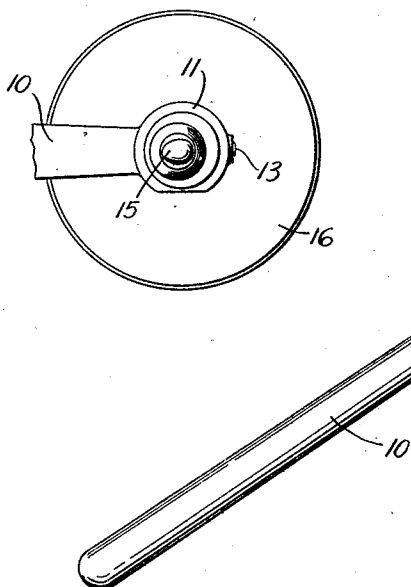


Fig. 1

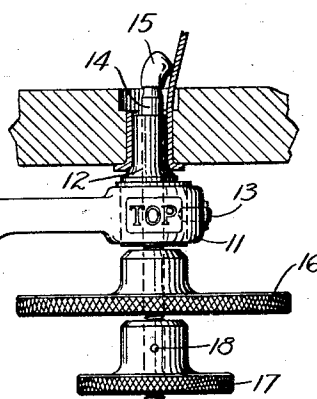


Fig. 3

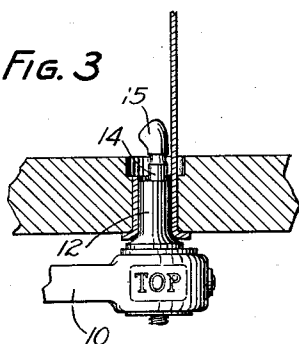
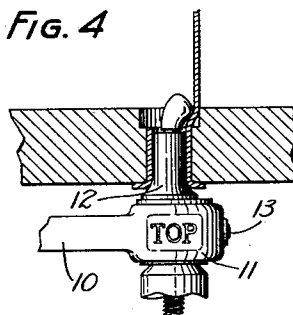


Fig. 4



INVENTOR
S. KERNER
BY *Irving Mac Donald*
ATTORNEY

UNITED STATES PATENT OFFICE

SEBASTIAN KERNER, OF RYE, NEW YORK, ASSIGNOR TO BELL TELEPHONE LABORATORIES, INCORPORATED, OF NEW YORK, N. Y., A CORPORATION OF NEW YORK

CRIMPING TOOL

Application filed September 30, 1930. Serial No. 485,349.

This invention relates to forming tools and has particular reference to a type of crimping tool for use for securing switch parts on their mountings.

5 In telephone switchboards for example, where it is necessary to replace worn out spring jack sleeves by new ones, these sleeves when placed in their mountings must be prevented from accidentally being pulled out
10 when the plugs are removed therefrom in the course of switching operation.

By the use of the tool of this invention, the tang of the spring jack sleeves to which line terminals are secured may be bent at the rear
15 of the panel in such a manner that the sleeves are held positively against axial movement and are thereby prevented from being accidentally removed from their support with the consequent breaking of the line terminals secured thereto.

20 In this tool a hub which fits the inside diameter of the sleeve is provided with a handle lever and in this hub is rotatably mounted a spindle which carries at one end a cam and at
25 the other end two knobs, one of which is provided for positioning the cam with respect to the tang and the other for imparting a bodily movement to the spindle and the cam carried thereby for bending the tang at the rear of
30 the panel.

In the accompanying drawings, Fig. 1 is an assembly view of the crimping tool shown in position in the sleeve; Fig. 2 is an end view of the tool; Fig. 3 is a partial view of the tool
35 showing the relative position of the hub and cam with respect to the tang of the sleeve previous to the crimping operation of the tang; and Fig. 4 is a partial view of the tool showing the position of the cam subsequent
40 to the crimping operation.

45 In the drawings, 10 is a handle lever having a head portion 11 which supports a hub member 12. This hub member is held securely in the head portion of the handle lever by a set screw and in it is rotatably mount-

ed a spindle 14 which carries at one end a camming member 15. The opposite end of spindle 14 is screw threaded for engagement with knobs 16 and 17, the latter being held
50 against relative movement thereon by a pin 18. The spindle 14 is eccentrically mounted in hub 12 in order to permit the placing of cam 12 in position in the bushing, the tang of which is to be crimped.

In using this tool the camming member 15
55 is first moved in position as shown in Figs. 2 and 3 by turning knob 17 whereby the apex of the cam is brought in line with the periphery of the hub 12 and thus permits the insertion of this hub and the cam 15 in the bushing. The cam 15 is then rotated an angular
60 distance of substantially 180° in position as shown in Fig. 1 wherein the cam 15 engages and slightly deflects the tang of the sleeve. The nut screw or knob 16 is then screwed
65 against the head piece 11 of the handle for imparting an axial movement to the spindle 14 and thereby moving the cam toward the body portion of the sleeve for imparting a
70 double bend to the tang in the counter sunk hole and thus securing the sleeve against axial movement in the panel. The cam 15 may then be rotated in position shown in Fig. 3 as above mentioned in order to permit the
75 removal of the hub from the bushing.

What is claimed is:

1. In a crimping tool, a handle lever member, a hub carried thereby, a spindle eccentrically mounted in said hub, a cam carried
80 by said spindle, and a plurality of rotatable means mounted on said spindle for imparting movements to said cam in different directions.

2. A crimping tool comprising a handle
85 lever member having a head piece, a hub extending laterally from said head piece, a spindle rotatably mounted in said hub, a cam carried by said spindle, a knob threadedly engaging said spindle and another knob se-
90

cured to said spindle adjacent the first mentioned knob for actuating said cam.

3. A crimping tool for securing jack sleeves in telephone switchboards comprising a handle lever member, a hub carried thereby, a spindle rotatably mounted in said hub, a cam carried by said spindle, a knob secured to said spindle for positioning the cam with respect to a tang extending from the body portion of the sleeve and another knob threadedly engaging the spindle for imparting an axial movement to said cam for bending the tang.

In witness whereof, I hereunto subscribe my name this 26th day of September, 1930.
SEBASTIAN KERNER.

20

25

30

35

40

45

50

55

60

65