March 29, 1927. 1,622,631

A. P. FAHNESTOCK

SPRING TERMINAL CLIP

Filed Oct. 27, 1923

Fig. 1.

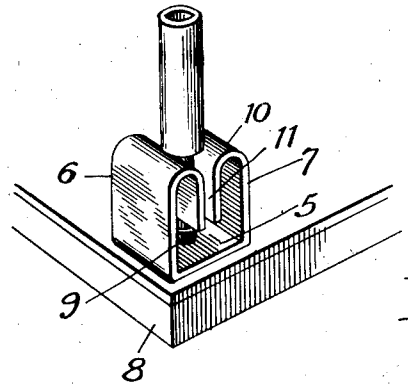


Fig. 2.

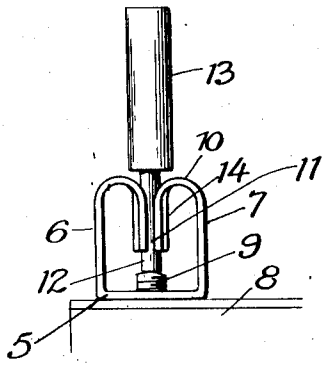


Fig. 3.

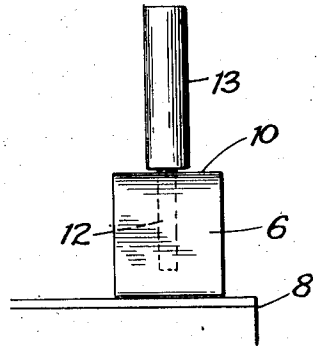
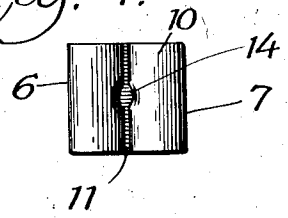


Fig. 4.



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UNITED STATES PATENT OFFICE.

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SPRING TERMINAL CLIP.

Application filed October 27, 1923. Serial No. 671,183.

The present invention relates to binding posts or fastening devices for the terminals of electrical conductors and consists in the combinations and arrangements of elements hereinafter described and particularly set forth in the accompanying claims.

The invention has for its purpose to provide a device of this character wherein the conductor terminal may be readily applied to or removed from the clip through the instrument of the terminal piece alone; i. e., without necessitating the use of the hands or any implement for manipulating the clip as a requisite to applying the terminal piece thereto or for removing the same.

A further purpose resides in providing a terminal clip having these automatic features which will securely hold the conductor in firmly gripped or clamped position, readily permitting the insertion and removal of the conductor and insuring proper electrical contact at all times between the conductor and the fastening device.

The invention is further characterized in that the clip is especially adapted for that type of work wherein a large number of clips are mounted on a terminal block in close proximity to the end that the respective conductors may be applied to position or removed at will, and thereby avoiding the necessity for using both hands, or the implements usually employed for separating the respective clip members to receive the terminal pieces as now required.

The terminal clip described herein is proposed as a modification of the types of clips shown in my copending applications for United States Letters Patents, Serial No. 643,715, filed June 6, 1923, and Serial No. 670,053, filed Oct. 22, 1923.

The invention is shown by way of illustration in the accompanying drawings wherein—

Figure 1 is a perspective view of the device.

Fig. 2 an edgewise elevational view thereof.

Fig. 3 a side elevational view, and

Fig. 4 a top plan view, with the terminal piece removed.

Referring to the construction in further detail, and wherein like reference characters designate corresponding parts in the different views shown, 5 designates the base portion of the clip, and 6 and 7 the parallel side members thereof. Said base and side portions are constructed from a single metal piece, as shown, and the device is adapted to be mounted on the block or other support 8 by a screw threaded plug 9 or other fastening means providing one of the terminals.

The side portions 6 and 7 are similarly turned inwardly as at 10 and downwardly as at 11, terminating at an appreciable distance above the base portion 5. (See Fig. 2.) The disclosed manner of forming the bent or turned portions 10 gives thereto and to the terminal portions 11 the necessary resiliency for connecting and disconnecting the terminal end piece 12 of the conductor 13. And this resiliency provides the necessary binding contact between said terminal portions 11 and the conductor end 12 to insure the required conductivity.

Each of the terminal or contacting portions 11 of the clip is slightly recessed or bulged inwardly, as at 14, to hold the terminal piece 12 in rigid position, and to readily permit of insertion and removal of the conductor member. Said depressed portions 14 furthermore definitely locate the position for applying the conductor member 12 when said member is to be inserted where the clip is located at an inaccessible place, or at times of darkness, as will be understood. That is the two depressions 11 form internal parts of the two turned portions 10 and are located at the meeting edges thereof thereby providing a circular opening at the top of the clip which serves as a guide for locating and initially positioning the terminal piece 12 under the conditions stated.

It will therefore be seen that this type of clip readily permits of insertion and removal of the terminal piece by an endwise or head-on movement as distinct from a lateral-wise one. And this fitting of the terminal piece to the clip may be accomplished wholly by one hand, i. e., it is not necessary to use the other hand, or a mechanical device, to separate the clip members which is now the general practice in devices of this character.

It will be understood of course that the invention is not limited to the details of construction and arrangement herein set forth inasmuch as various modifications may be made therein without departing from the invention within the scope of the claim.

What is claimed as new is:—

A terminal clip made from metallic band

of uniform width comprising a centrally apertured securing base provided with flat, upright side members, said members having their ends turned first inwardly to form arcuate portions and then downwardly to form substantially parallel depending fingers, each finger being provided with a groove, the grooves facing each other and being arranged for receiving and clamping a pin terminal therebetween and extending along said fingers in the central length direction thereof and to the full extent of the fingers, and being located at the meting faces thereof to provide a substantially circular opening at the top of the clips for holding the pin terminal centrally therein, and in upright position, the aperture in said base being adapted to engage with a screw-threaded plug, whereby said pin terminal is made to contact with said plug when gripped by the fingers, substantially as set forth.

In testimony whereof I affix my signature.

ARCHIE P. FAHNESTOCK