

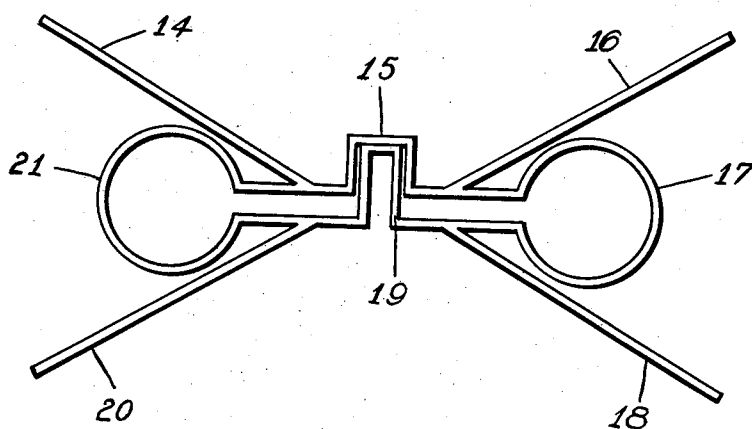
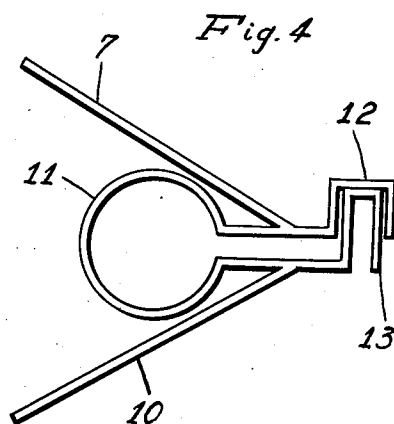
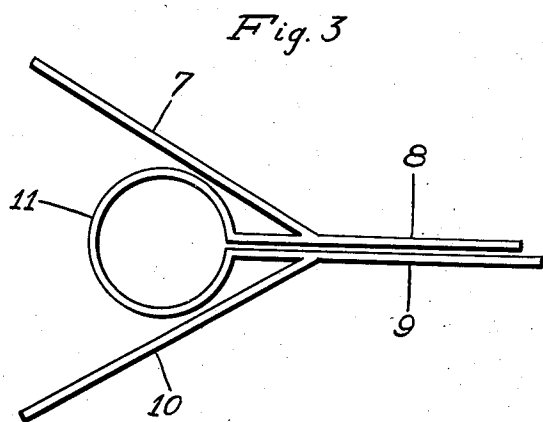
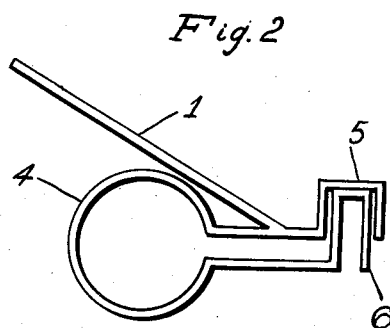
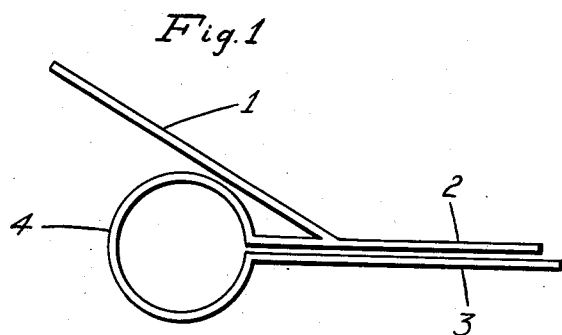
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SPRING CLIP

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SPRING CLIP

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2 Claims. (Cl. 339—258)

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The invention relates to a spring clip for holding securely the end of a wire of an electric circuit.

An object is to devise such a spring clip on the principle of a sprung spring clip having a pair of U-jaws one nesting in the other.

I attain this object by devices illustrated in the accompanying drawing, in which—

Figure 1 is a side view of a blank from which one form of the spring clip is made;

Figure 2 is a side view of a form of the spring clip corresponding to the blank shown in Figure 1;

Figure 3 is a side view of a blank from which an alternative form of the spring clip is made;

Figure 4 is a side view of the alternative form of the spring clip; and

Figure 5 is a side view of a double loop form of the spring clip.

In Figure 1 is shown a blank consisting of a short length of tubing made of spring temperable stainless steel by cold extrusion. The cold extrusion process spring tempers the tubing. A special heat treatment for spring tempering the tubing is not necessary. The blank has a uniform right cross-section and a suitable length of one-half inch. The blank consists of two flat, parallel portions 2 and 3, a lever portion 1, and a cylindrical spring loop portion 4 while the spring clip is being made, the two flat, parallel portions 2 and 3 are pried apart and then each flat, parallel portion 2 and 3 is form stamped by a forming punch and die to form the two U-jaws 5 and 6. The resulting U-jaws 5 and 6 are released from the prying action whereupon the U-jaws 5 and 6 spring strongly against each other by the spring tension of spring loop portion 4. U-jaw 6 nests snugly in U-jaw 5. The middle part of U-jaw 6 contacts the middle part of U-jaw 5 and presses strongly against the middle part of U-jaw 5 by the tension of spring loop portion 4. Lever portion 1 is adapted to cooperate with spring loop portion 4 to pry apart U-jaws 6 and 5 by pressing down lever portion 1 while spring loop portion 4 contacts an abutment such as a wall in order to insert or remove the end of a wire of an electric circuit.

In Figure 3 is shown a blank which differs from the blank shown in Figure 1 in that it has two lever portions 7 and 10 instead of one. In Figure 4 is shown a spring clip which differs from the spring clip shown in Figure 2 in that it has two lever portions 7 and 10 instead of one. Both lever portions 7 and 10 are adapted to cooperate with spring loop portion 11 serving as a fulcrum to pry apart U-jaws 12 and 13 by pressing the two lever portions 7 and 10 together.

In Figure 5 is shown a spring clip which differs from the spring clip shown in Figure 4 in

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that the U-jaws 15 and 19 are joined by another spring loop portion 17 at their other end. Both pairs of lever portions 14, 20, 16 and 18 are adapted to cooperate with the spring loop portion 21 and 17 serving as fulcrums to pry apart U-jaws 15 and 19 by pressing each lever of each pair of levers 14, 20 and 16, 18 together simultaneously.

I claim:

1. A spring clip for holding securely the end of a wire of an electric circuit comprising a pair of U-jaws disposed substantially in parallelism and joined at one end by a spring loop and joined at the other end by another spring loop, one U-jaw nesting snugly in the other U-jaw and pressing strongly against each other by the tension of the spring loops, said spring clip also comprising a pair of integral levers disposed at opposite sides of said pair of U-jaws, said levers serving to cooperate with the spring loops serving as fulcrums to pry apart said middle portions of said U-jaws, while said U-jaws are pried apart then said U-jaws constitute a tube having a variable length and an invariable width, said tube thus enabling the end of a wire to be conveniently inserted into and to be conveniently withdrawn from said tube.

2. A spring clip for holding securely the end of a wire of an electric circuit comprising a pair of U-jaws disposed in parallelism and joined at one end by a spring loop and joined at the other end by another spring loop, one U-jaw nesting snugly in the other U-jaw, the middle portions of said U-jaws contacting each other and pressing strongly against each other by the tension of the spring loops, while pried apart said U-jaws constituting a tube having a variable length and an invariable width, said tube thus enabling the end of a wire to be conveniently inserted into and to be conveniently withdrawn from said tube.

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