Nov. 18, 1947. J. SEILER 2,431,084

CLIP

Filed Aug. 1, 1944

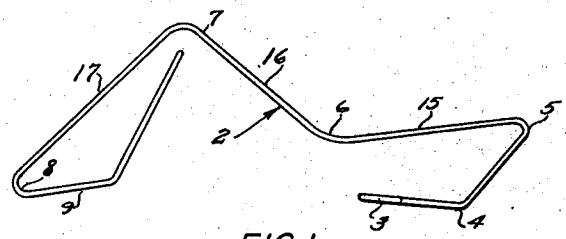


FIG. 1.

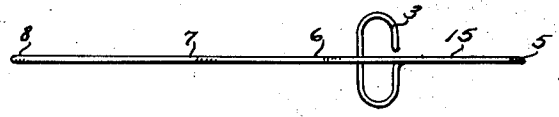


FIG. 2.

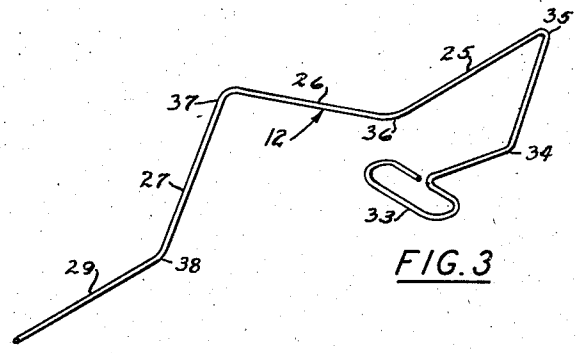


FIG. 3

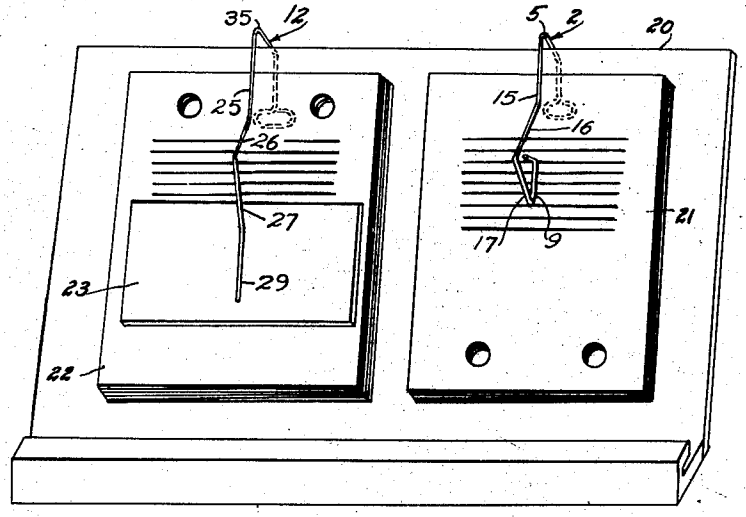


FIG. 4

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2 Claims. (Cl. 24—261)

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This invention relates to clips made of a single piece of spring wire and has for its objects the provision of a clip adapted to engage over the edge of a board, book cover, or other solid object, and maintain a gripping bar in position to engage paper tags, slips and the like and yieldably retain them upon the surface of the board;

A further object is to provide a clip adapted to engage the edge of a board or the like and provide an upwardly extending easily grasped finger grip which is maintained in a vertical position, together with a longitudinally extending gripping bar adapted to securely hold paper slips, or the like upon the face of said board with a minimum amount of visual obstruction;

A still further object is to provide a clip, formed of a single piece of spring wire, having a C clamp at one end adapted to engage the edge of a drawing board, easel, or the like, so as to maintain a raised gripping portion in vertical position, and position a gripping bar against the face of said board so that paper slips may be maintained yieldably in position upon the face of the board, and so that the gripping bar may be raised by said finger gripping portion without disturbing the position of said C clamp portion.

Other objects will appear hereinafter.

I attain the foregoing objects by means of the construction shown in the accompanying drawings, in which—

Figure 1 is a side elevation of one form of my clip;

Figure 2, a plan view thereof;

Figure 3, a perspective view of a modified form of my clip; and

Figure 4, a perspective view of an easel showing two of the forms of my device as used.

Similar numerals refer to similar parts in the several views.

The clip, one form of which is shown in Figures 1 and 2 and indicated in general by numeral 2, is formed from one piece of semi-hard spring wire. The gage size of the wire varies according to the over-all size of the clip.

Beginning at the right end the wire is bent to form the loop 3, forming a pad which may be said to extend generally in a horizontal plane. After completing the loop the wire extends to the right (Figs. 1 and 2) and in the same plane as the loop until it reaches bend 4 from which it extends upward in a vertical plane, relative to that of the loop, and at an angle of approximately 120 degrees, to bend 5 where it is bent, still in the same vertical plane at an angle of approximately 40 degrees to the left to form the top bar 15 of

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the C clamp portion of the clip. The lower part of this clamp portion is the loop 3, and the several parts just mentioned are proportioned so that the clamp will engage over the edge of a board, or other object on which the clamp is set, with adequate clamping force. The parts are formed so that they must be sprung open slightly to receive the board edge, and when so bent the temper of the wire is such that most of the opening movement is at bend 5.

At the left end of the bar portion 15 the wire is bent upward with a comparatively large radius forming the bend 6 and then extends upward and to the left at an angle of approximately 130 degrees forming a bar 16, which terminates at the apex bend 7, thence it is bent downward and to the left at an angle of about 100 degrees forming bar 17, which terminates at bend 8. At bend 8 the wire may be either bent back to the right to form a hold down or gripping bar 9, and thence upward toward the grip apex at 7, as shown in Figures 1 and 2, or to the left, as shown in Figure 3 to form a gripping bar 29. It will be noted that, in the modification shown in Figure 3, and indicated in general by numeral 12, the parts corresponding to those in Figures 1 and 2 are indicated by numerals as follows: loop 3 in Figures 1 and 2 by numeral 33 in Figure 3; bend 4 by numeral 34; bend 5 by numeral 35; bar 15 by numeral 25; bar 16 by numeral 26; bend 7 by numeral 17; bar 17 by numeral 27; bend 8 by numeral 38; and bar 9 by numeral 29. In either form the gripping bars 9 or 29 extend in a horizontal plane slightly below bends 5 or 35 and 6 or 36, respectively, and about parallel to bars 15 or 25, respectively, when the clamp portion is expanded. The apex bends 7 and 37 and the adjacent bars form a finger grip.

It is to be noted that the portions of wire forming the clamp, finger grip, and gripping bar are all in the same vertical plane.

In use the clamp is hooked over the edge of a board 20, as shown in Figure 4. The type shown at the right, corresponding to that illustrated in Figure 1, may be used to hold a sheaf of papers 21 on the face of the board. These may be easily removed, one at a time, by reason of the resilient hold of the gripping bar, although the position of the clamp is not disturbed. In the form shown at the left, a sheaf of papers 22 is held on the board by the upper part of the clamp, while the outwardly extending gripping bar, being the form shown in Figure 3, extends downward to grip and hold a line marking card, 23. This may be raised or lowered, independent of the grip on the

sheaf, and the position of the grip as well. Sundry other uses are obvious. The clip may be engaged and removed by grasping the grip bends 7 and 37, which are always upright; papers from a sheaf may be released similarly; the position of the clamp or the gripping bar may be adjusted by slightly bending the semi-hard spring wire material of which the device is made.

While I have described but two examples of my device, it may be found, by others, that many modifications may be made, to the clip, all of which may well remain within the spirit of the invention; therefore I wish to be limited only by the following claims:

I claim:

1. A clip formed of one piece of resilient wire shaped to form a loop extending in a horizontal plane, thence extending to the right away from said loop, thence upward and away from said loop at an angle of approximately 120 degrees, thence to the left back over said loop forming a bend of approximately 40 degrees to complete a C-clamp vertically extending over said loop; a raised bar extending in a vertical plane to the left of the upper part of said clamp from a rounded bend and at an angle of about 130 degrees to an apex, thence downward in the same plane at an angle of about 100 degrees to approximately the same horizontal plane as that of the top of said C-clamp portion, and thence in a horizontal direction substantially alined with the said upper part of said C-clamp portion.

2. A clip formed of a single piece of semi-hard spring wire including in combination a C-clamp portion, a fingergrip portion and a hold down bar, said C-clamp being formed of a horizontally extending loop forming a pad for the under jaw of the clamp, a short length of the wire leading from said clamp as the lower jaw said wire thence extending upward from an obtuse angular bend, forming the clamp web, and thence over said loop from an acute angular bend to form the top jaw of said clamp portion; said wire thence being bent upward and away from the open end of said clamp at an obtuse angular bend to an apex forming said finger grip and thence downward to a horizontal plane substantially conforming to that of the upper jaw of said clamp; said wire then being bent to be in a horizontal plane substantially conforming to that of said upper jaw to form a gripping bar.

JOHN SEILER.

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The following references are of record in the file of this patent:

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