

March 18, 1952

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2,589,889

PAPER CLIP

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2 SHEETS—SHEET 1

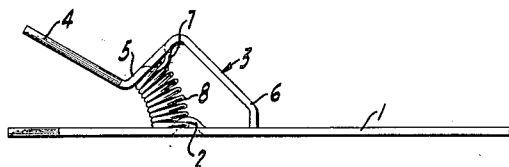


FIG. 1

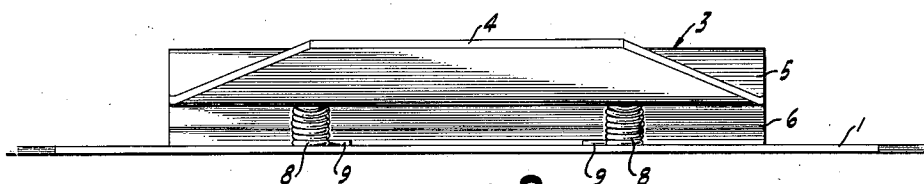


FIG. 2

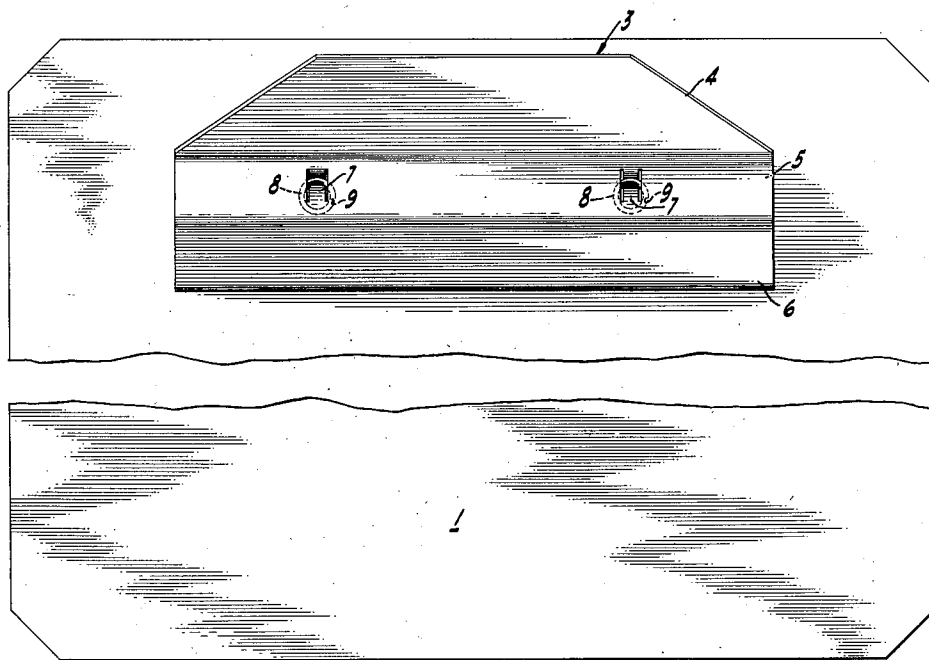


FIG. 3

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2 SHEETS—SHEET 2

FIG. 4

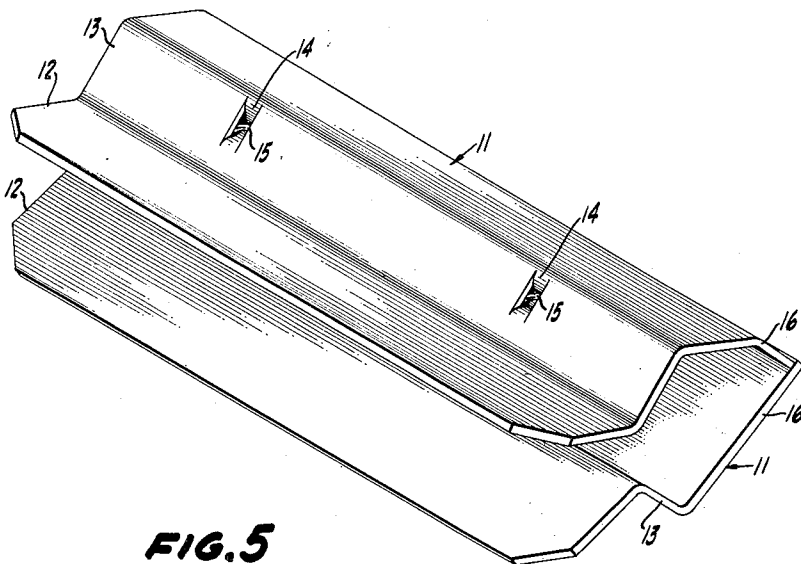
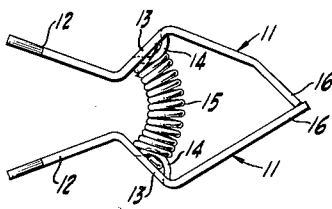


FIG. 5

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UNITED STATES PATENT OFFICE

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5 Claims. (Cl. 24-66)

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This invention relates to and in general has for its object the provision of a paper clip and/or clip board including a pair of superposed plates having forwardly diverging intermediate portions and coil springs disposed between and secured to said intermediate portions with their ends in abutment with said portions whereby said springs are maintained in arcuate distorted form.

The invention possesses other advantageous features, some of which, with the foregoing, will be set forth at length in the following description where those forms of the invention which have been selected for illustration in the drawings accompanying and forming a part of the present specification are outlined in full. In said drawings, two forms of the invention are shown, but it is to be understood that it is not limited to such forms, since the invention as set forth in the claims may be embodied in a plurality of forms.

Referring to the drawings:

Fig. 1 is a side elevation of a clip or clip board embodying the objects of my invention;

Fig. 2 is a rear end elevation of the clip or clip board illustrated in Fig. 1;

Fig. 3 is a top plan view of the clip or clip board illustrated in Fig. 1;

Fig. 4 is a side elevation of a modification of the clip illustrated in Figs. 1, 2 and 3;

Fig. 5 is an isometric projection of the clip illustrated in Fig. 4.

The clip and/or clip board illustrated in Figs. 1, 2 and 3 comprises a metal board or plate 1 of generally rectangular form. Struck from the plate 1 adjacent its rear or upper end are a pair of laterally spaced, upwardly extending eyes 2. Overlying the upper or rear end of the plate 1 is a clip generally designated by the reference numeral 3 and provided with a rearwardly inclined actuating portion or level 4, a forwardly inclined intermediate portion 5 and a paper gripping member or jaw 6 converging forwardly on the plate 1. Struck from the intermediate clip portion 5 are a pair of spaced downwardly extending eyes 7 in vertical alignment with the eyes 2. Disposed between the plate 1 and the intermediate clip portion 5 are coil springs 8, the ends 9 of the terminal convolutions or coils of each spring being threaded through the eyes 2 and 7 whereby the ends of the springs are held in abutment with the plate 1 and the intermediate clip portion 5. Since the clip portion 5 is forwardly inclined with respect to the plate 1, the coil springs 8 are distorted into arcuate form and resiliently hold the forward edge of the clip in engagement with the

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upper face of the plate 1. In addition to this, the springs 8 serve as fulcrum points for the clip.

By cutting down the length of the plate so that it is substantially equal to that of the clip 3, the resulting structure is merely a paper clip.

In the modification shown in Figs. 4 and 5, two identical clips or jaws 11 are resorted to, each having rearwardly diverging actuating levers 12, and forwardly diverging intermediate portions 13. Cut and pressed inwardly from the portions 13 are eyes 14 and secured to these eyes are coil springs 15, the ends of these springs being in abutment with the intermediate portions 13. As in the case of the modification illustrated in Figs. 1, 2 and 3, the springs 15 are distorted to form a forwardly extending arch whereby the jaw edges 16 of the resulting clip are urged into clamping position. Here again the springs serve as fulcrum points for the other two members as well as serving to urge the jaws into their clamping positions.

I claim:

1. A clip comprising: first and second superposed plates having forwardly diverging intermediate portions and forwardly converging forward portions; and coil springs disposed between said first and second plates and secured thereto with their ends in abutment with said forwardly diverging intermediate portions.

2. A clip comprising: two superposed plates having forward meeting edges and spaced, forwardly diverging intermediate portions; and coil springs secured between and to said intermediate portions with their ends in abutment with said portions, said springs being held in arcuate form.

3. A clip comprising, a pair of superposed plates, having meeting portions for gripping paper, said plates having other portions disposed angularly with respect to one another, with the planes containing said other portions forming an angle facing generally toward the meeting portions of the plates, coil springs disposed between the plates, and means for fastening the ends of the coil springs to the angularly disposed portions in abutting relationship, to thereby force the coil springs to assume arcuate shapes with the convex sides of the springs facing generally toward the meeting edges of the plates.

4. A clip comprising, a plate, a clip member overlying one end of said plate, said clip member including a forward edge converging on and engaging said plate and a portion diverging forwardly with respect to said plate, coil springs disposed between said plate and the forwardly diverging portion of the clip member, and means

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for securing the ends of the springs to said forwardly diverging portion and to said plate in abutting relationship to each to thereby force the springs to assume an arcuate form with the convex sides of the springs facing forwardly.

5. A clip comprising, a plate, a clip member overlying one end of said plate, said clip member including a forward edge converging on and engaging said plate and a portion diverging forwardly with respect to said plate, coil springs disposed between said plate and the forwardly diverging portion of the clip member, and means for securing the ends of the springs to said forwardly diverging portion and to said plate in abutting relationship to each to thereby force the springs to assume an arcuate form with the convex sides of the springs facing forwardly, said securing means comprising eye portions struck from said forwardly diverging portion and from said plate and disposed on the convex sides of

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the coil springs and receiving the ends of the coil springs.

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