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3,159,369

CLIP FOR WALL MOUNTING

Filed March 11, 1963

Fig. 1

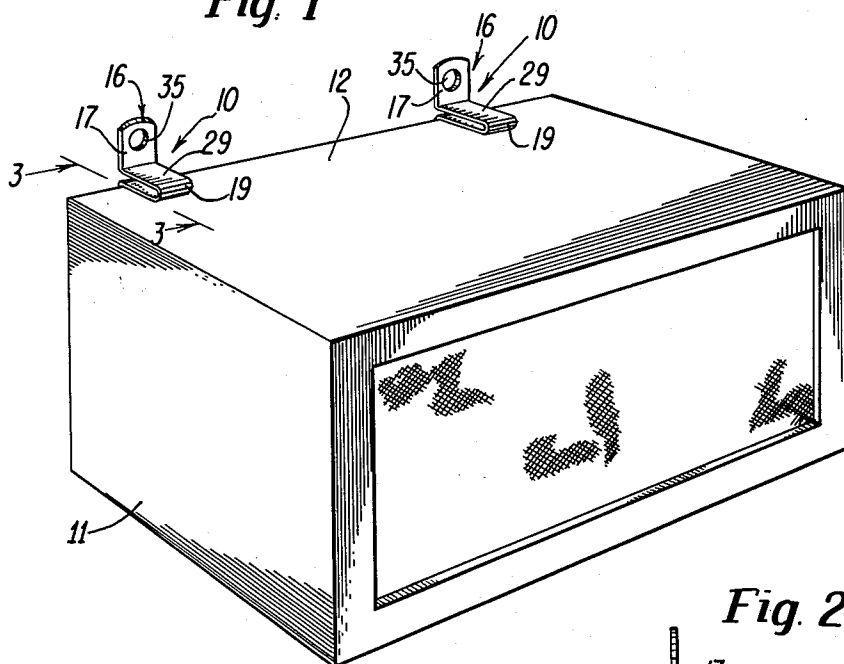


Fig. 2

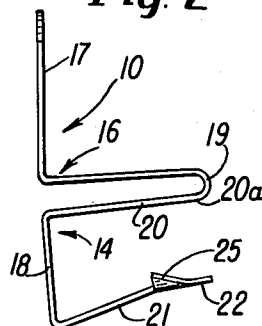


Fig. 3

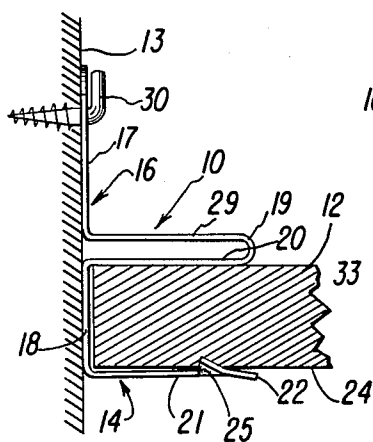


Fig. 4

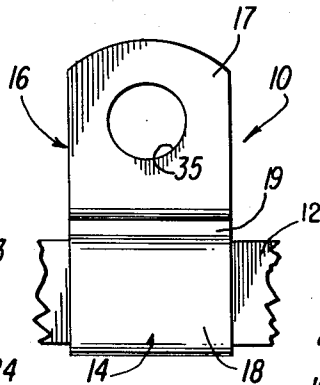
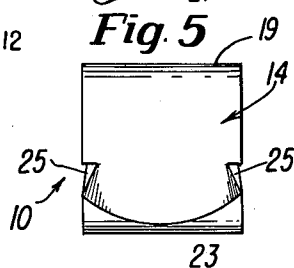


Fig. 5



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CLIP FOR WALL MOUNTING

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This invention relates to a novel clip for mounting a cabinet to a vertical surface and it particularly relates to a clip for resiliently mounting a loud-speaker cabinet on a wall in order to substantially reduce undesirable vibrations of the cabinet.

It is a primary object of this invention to provide a clip for resiliently mounting a loud-speaker cabinet on a vertical surface.

It is a further purpose of this invention to provide a clip which may be secured to a cabinet without the use of additional fastening devices.

It is also an object of this invention to provide a clip for a cabinet, which clip may be mounted to the cabinet and then to the wall without the use of tools.

It is an additional object of this invention to provide a simply and economically constructed clip for mounting a loud-speaker cabinet to a vertical surface.

Further purposes and objects of this invention will appear as the specification proceeds.

One embodiment of the present invention is illustrated in the accompanying drawings wherein:

FIGURE 1 is a perspective view of two mounting clips in position on a loud-speaker cabinet;

FIGURE 2 is a side elevational view of a mounting clip in the unstressed condition, prior to attachment to the wall of a loud-speaker cabinet;

FIGURE 3 is a partially broken sectional view taken along line 3—3 of FIGURE 1;

FIGURE 4 is a rear elevational view of the mounting clip illustrated in FIGURE 3; and

FIGURE 5 is a bottom plan view of the clip shown in FIGURE 2.

Generally, the integral clip 10 for mounting a loud-speaker cabinet 11 on a vertical surface or wall 13 comprises a channel portion, generally 14, for engaging the upper cabinet wall 12, a substantially L-shaped portion, generally 16, for attaching the clip 10 to a vertical wall 13, the L-shaped portion 16 having an arm 17 in alignment with the base 18 of the channel member 14, and a bight portion 19 connecting the L-shaped portion 16 and the channel portion 14 whereby a loud-speaker cabinet 12 may be resiliently mounted on a vertical surface 13.

The channel portion 14 is U-shaped and includes a base or bight 18 from whence extend spaced legs, including an upper leg 20 and a lower leg 21. Prior to stressing the clip 10, the upper leg 20 is positioned at approximately a right angle to the base 18 and, as shown in FIGURE 2, the lower leg 21 is positioned at an acute angle to the base 18, preferably at an angle of about 75 degrees, in converging relation with leg 20. After the clip 10 is stressed, or sprung, to receive the wall 12 therebetween, both the leg 20 and the leg 21 are positioned at approximately right angles to the base 18.

Desirably, as shown in FIGURE 3, the length of the base 18 is to be approximately equal to the thickness of the cabinet wall 12 which is to receive the clip 10. When the clip 10 is in the unstressed condition shown in FIGURE 2, the distance from the terminal portion 20a of upper leg 20 to the terminal portion 22 of the lower leg 21 is to be less than the length of the base 18, in order that the wall 12 will be snugly maintained between the upper leg 20 and the stressed lower leg 21.

The terminal portion 22 of the lower leg 21 is bent to a slight degree in a direction away from the upper leg 20, to make it easier to assemble the clip onto wall 12.

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The leg 21 is provided with upward projections or teeth 25 which permit of assembly of the clip but which then dig into wall 12 to resist unintended separation of the clip from the loud-speaker. The projections 25 cooperate with the clamping effect of the legs 20 and 21 to firmly hold the clip 10 to the cabinet 11.

The L-shaped portion 16 of the clip 10 includes an upwardly-extending arm 17, which is provided with an aperture 35, and a base leg 29, which is integral with and extends at approximately right angles to the arm 17. The aperture 35 of the arm 17 is adapted to receive a fastener, as the hanger 30, for supporting the clip 10 and the cabinet 11 on an upright wall 13. The arm 17 is desirably co-planar with the base 18 of the channel member 14 and the base leg 29 is desirably aligned in spaced relationship to both the legs 20 and 21 of the channel member 14.

A resilient bight, or bend, portion 19 connects the base leg 29 of the L-shaped member 16 and the upper leg 20 of the channel member 14. The resilient bight 19 is spaced distally from the plane of base 18 and arm 17. The cooperation between the base leg 29, resilient bight portion 19 and upper leg 20 of channel 14 provides a desirable resilient mounting for the loud-speaker cabinet 11. Thus, the simply constructed clip 10 not only provides good gripping of wall 12 and permits of substantially flush mounting of cabinet 11 adjacent wall 13, but also provides a resilient mounting.

The clip 10 is advantageously constructed of flat spring steel which is formed in the shape shown in FIGURE 2. Following the forming of the clip 10, the clip is annealed in order to provide the desired resilient or springable clip 10. The use of the clip 10 will be evident from the foregoing description as amplified, for example, by the illustration in the drawings.

While there has been shown and described a particular embodiment of this invention, it will be obvious to those skilled in the art that various changes and modifications may be made therein without departing from the invention and, therefore, it is intended in the appended claims to cover all such changes and modifications as fall within the true spirit and scope of the invention.

What I claim is new, and desire to secure by Letters Patent of the United States, is:

1. A mounting clip for a loud-speaker cabinet or the like wherein said cabinet has an upper wall, said clip defining a U-shaped channel portion with a bight and spaced legs adapted to grip said upper wall of the cabinet between said spaced legs; an L-shaped portion adapted for mounting said clip on an upright support, said L-shaped portion having an upwardly extending arm which is aligned substantially in the same plane with the bight of said channel member, said upwardly extending arm being apertured to afford means for mounting both said arm and the bight of the clip flush against an upright support wall, and a resilient bight portion connecting the extended end of one leg of said channel portion with said L-shaped portion whereby to provide a resilient mounting.

2. A mounting clip for a loud-speaker cabinet or the like wherein said cabinet has an upper wall, said clip defining a channel member having a base with spaced upper and lower legs, the lower leg as it extends from said base being biased in a direction toward the upper leg, whereby said channel portion is adapted to clampingly engage said upper wall of the cabinet between said upper and lower legs; an L-shaped portion for mounting said clip on an upright support, said L-shaped portion having an arm which is planarly aligned with the base of said channel member and having a projecting leg and a resilient bight portion connecting said projecting leg of said L-shaped portion to said upper leg of said channel portion so as to provide a resilient mounting.

3. A mounting clip for a loud-speaker cabinet or the like wherein said cabinet has an upper wall, said clip being shaped from a single strip of spring metal to define a channel portion having a base with upper and lower legs, the lower leg as it extends from said base being biased in a direction toward the upper leg, whereby said channel portion is adapted to clampingly receive said cabinet upper wall therebetween, said lower leg being provided with projections extending toward said upper wall and adapted to bite into said cabinet wall, the end portion of said lower leg spaced from said base of the channel projecting away from said base and slightly downwardly away from parallel to said upper leg to ease the mounting of said clip onto a cabinet upper wall, an L-shaped por-

tion having an arm which is planarly aligned with the base of said channel member and having a projecting leg which is spaced above the upper leg of said channel member, and a resilient bight portion connecting said projecting leg of said L-shaped portion with the upper leg of said channel member so as to provide a resilient connection between said channel portion and said L-shaped portion.

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