

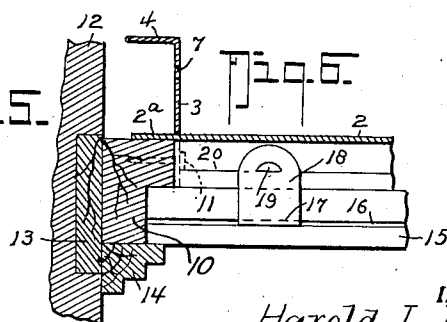
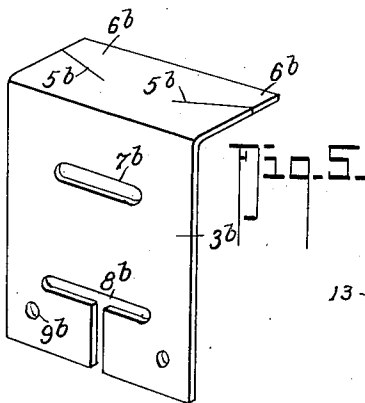
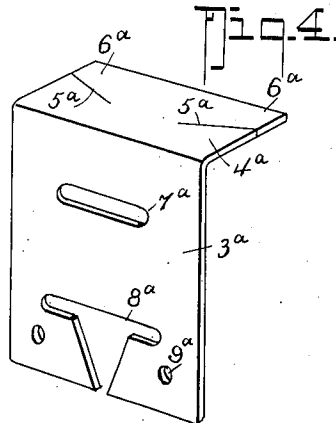
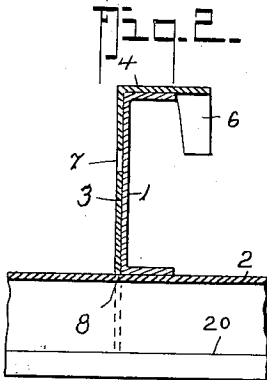
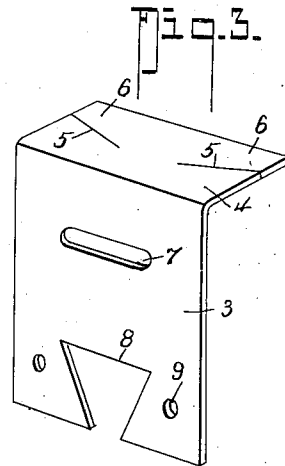
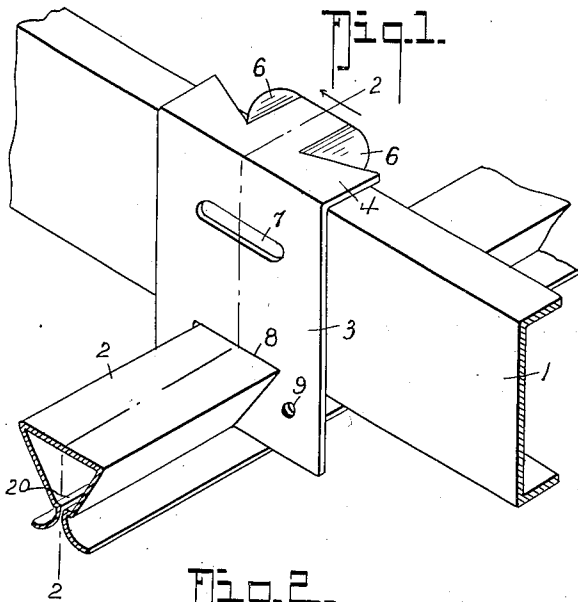
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H. L. FINCH

2,485,090

CHANNEL CLIP

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UNITED STATES PATENT OFFICE

2,485,090

CHANNEL CLIP

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Application July 1, 1946, Serial No. 680,687

3 Claims. (Cl. 189—35)

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My invention relates to systems of ceiling construction of the type disclosed in my application filed July 6, 1944, Serial No. 543,643 now Patent No. 2,447,694 dated August 24, 1948.

The present invention has for its objects; to provide an improved channel clip for supporting furring runners; to provide a clip which is of such construction that it can be firmly attached to a supporting beam; to provide a clip that can be attached to wooden wall plate to support the runner at the wall line; and to provide a clip which can be designed to fit almost any cross section of furring runners.

Other objects will in part be obvious and in part be pointed out hereinafter.

To the attainment of the aforesaid objects and ends, the invention further resides in those novel details of construction, combination and arrangement of parts, all of which will first be described in detail and then be specifically pointed out in the appended claims, reference being had to the accompanying drawing, in which

Fig. 1 is a perspective view (parts being shown in section) showing my invention.

Fig. 2 is a section on the line 2—2 of Fig. 1.

Fig. 3 is a perspective view of the form of clip shown in Fig. 1.

Figs. 4 and 5 are perspective views of modifications of the invention.

Fig. 6 is a vertical section on a reduced scale through the central longitudinal vertical plane of the runner, showing the section at the wall line.

In the drawing in which like numerals and letters of reference indicate like parts in all the figures, 1 represents a channel iron of a grillage, to which a runner 2 is attached by means of the new clip of my invention.

In this application I make no claim to the runner per se as that comprises the subject matter of my application Serial No. 613,087 filed August 28, 1945 of which application the present one constitutes a continuation in part.

The channel clip comprises a flat plate 3 having its upper end bent over at right angles, the portion 4 being diagonally slit, as at 5, to leave two side portions 6 that can be bent down over the edge of the channel iron 1, as indicated in Fig. 1, whereby the upper part of the clip forms a hook over the channel iron. The clip, at its bottom end, has a slot 8 shaped to fit freely over the head of the runner. The shape of the slot 8 will depend on the cross-section of the runner with which it is to be used, for examples:

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with a runner such as is shown in my Patent #2,229,064 issued January 21, 1941 the clip shown in Fig. 4 is used; with a runner such as shown in the patent to Streeter #673,144 issued April 30, 1901 the clip shown in Fig. 5 can be used.

In Figs. 4 and 5 those parts which correspond to like parts in Figs. 1 to 3 bear the same reference numbers plus the index letters *a* and *b* respectively.

When the clip is used as shown in Fig. 1 the slot 7 and holes 9 perform no particular functions. However, when a wooden-beam grillage is used in lieu of the channel iron grillage, the clip is reversed to bring the face of the clip, shown in Fig. 1, against the wooden beam and the clip is nailed to the beam via slot 9.

The clip may also be used to support the runner at the wall line by nailing the clip to the wall plate 10, as at 11. The top wall of the runner is extended, as at 2^a so as to lie in the wall plate 10, see Fig. 6.

In Fig. 6, 12 is the wall, 13 a wooden strip embedded therein, 10 the wall plate, 14 the moulding, 15 an acoustical block having a groove 16 for the flange 17 of the sustaining clip 18 whose stamped projection 19 rests on the ledge 20. The clip 18 and tile 15 are no part of the present invention.

It will be seen that by virtue of the diagonal slits 5 when the members 6 are bent down over the channel iron 1 they will draw the body of the clip 3 snugly against the channel iron.

Attention is called to the fact that the angular slits 5 provide an automatic self-tightening of the furring runner to the bottom of the channel 1. This is brought about by bending the members 6 down and as soon as the channel is snugly engaged additional pressure on or additional bending the members 6 down will cause the clip to rise, inasmuch as the cut is on an angle. This causes the clip to pull the furring runner up tightly against the face of the channel.

From the foregoing description, taken in connection with the accompanying drawing, it is thought that the construction, uses, and advantages of my invention will be clear to those skilled in the art.

What I claim is:

1. A channel clip formed of a plate of sheet metal having a bent over end that is provided with diagonal slits extending inwardly from its sides to provide oppositely directed bendable elements, the plate adjacent its other end having a furring-runner-receiving slot.

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2. A channel clip formed of a plate of sheet metal having a bent over end that is provided with slits at its sides which slits extend from the side edges toward each other and converge toward the unbent portion of the plate and terminate short of one another to provide oppositely directed bendable elements for overlapping a beam on which the clip is designed to be hung.

3. In combination, a beam, a channel clip formed of a plate of sheet metal having a bent over end that is provided with slits at its sides which slits extend from the side edges toward each other and converge toward the unbent portion of the plate and terminate short of one another to provide oppositely directed bendable elements positioned on and overlapping the beam on which the clip is designed to be hung, the distance between the ends of the slits and the unbent portion of the plate being less than the thick-

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ness of the beam with which the clip is to be used and the bendable elements of the clip extending a distance greater than the thickness of the beam on which the clip is designed to be hung.

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REFERENCES CITED

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

UNITED STATES PATENTS

Number	Name	Date
1,927,915	Boyle	Sept. 26, 1933
1,974,819	Koerner	Sept. 25, 1934
2,209,470	Nichols	July 30, 1940

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Number	Country	Date
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