

J. W. SHIRER.  
METAL CLIP.  
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955,003.

Patented Apr. 12, 1910.

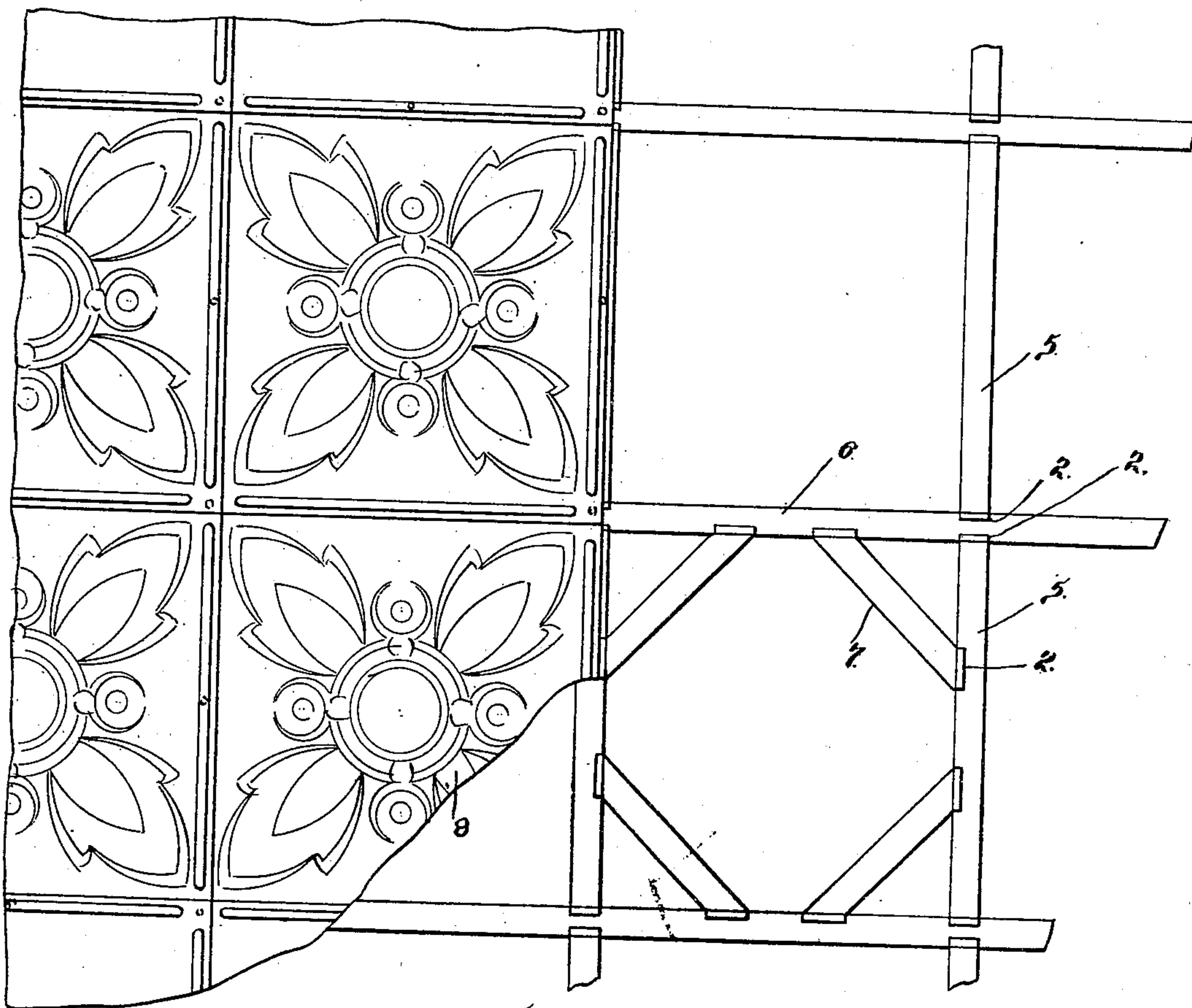


Fig. 1.

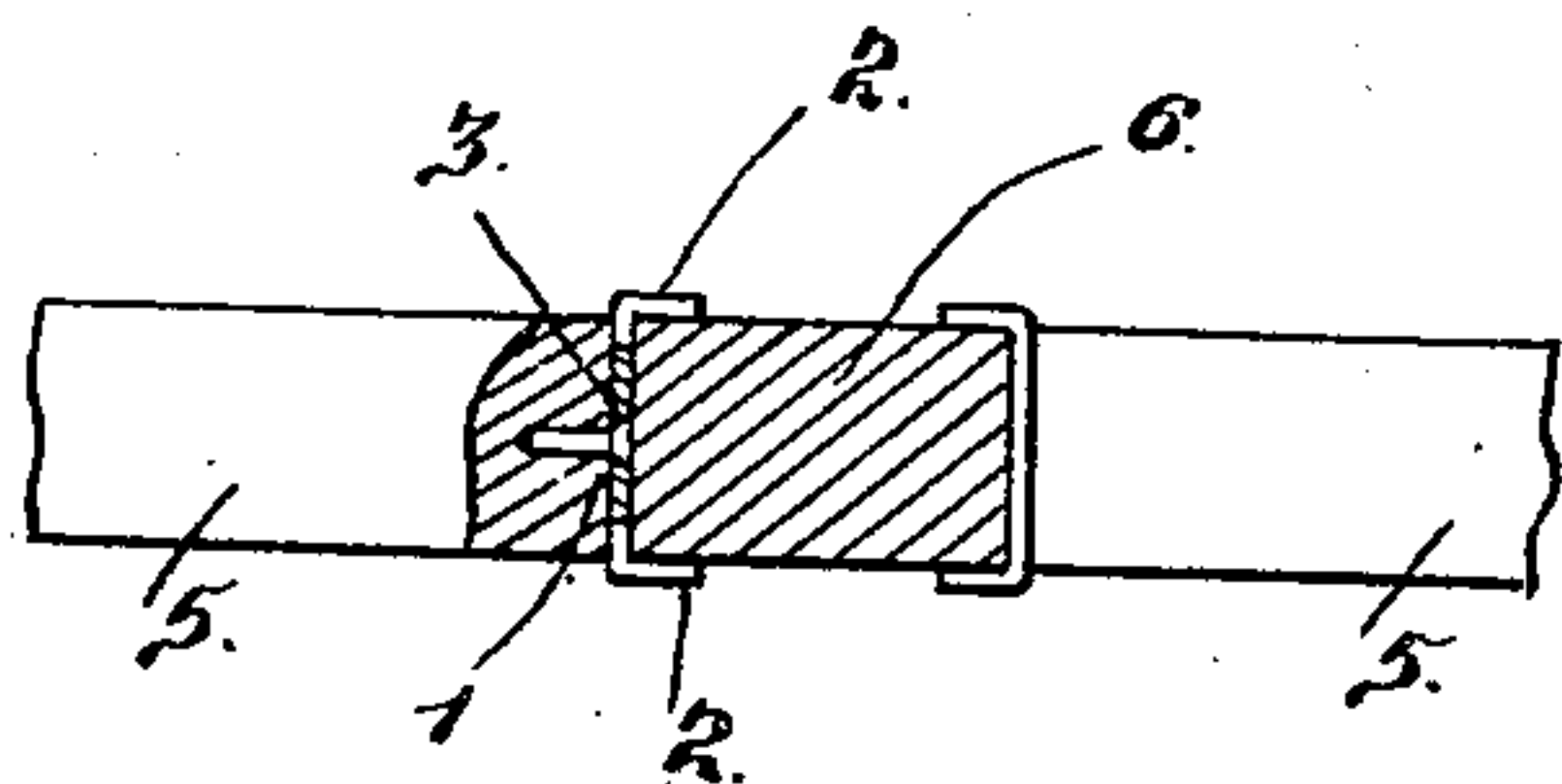


Fig. 2.

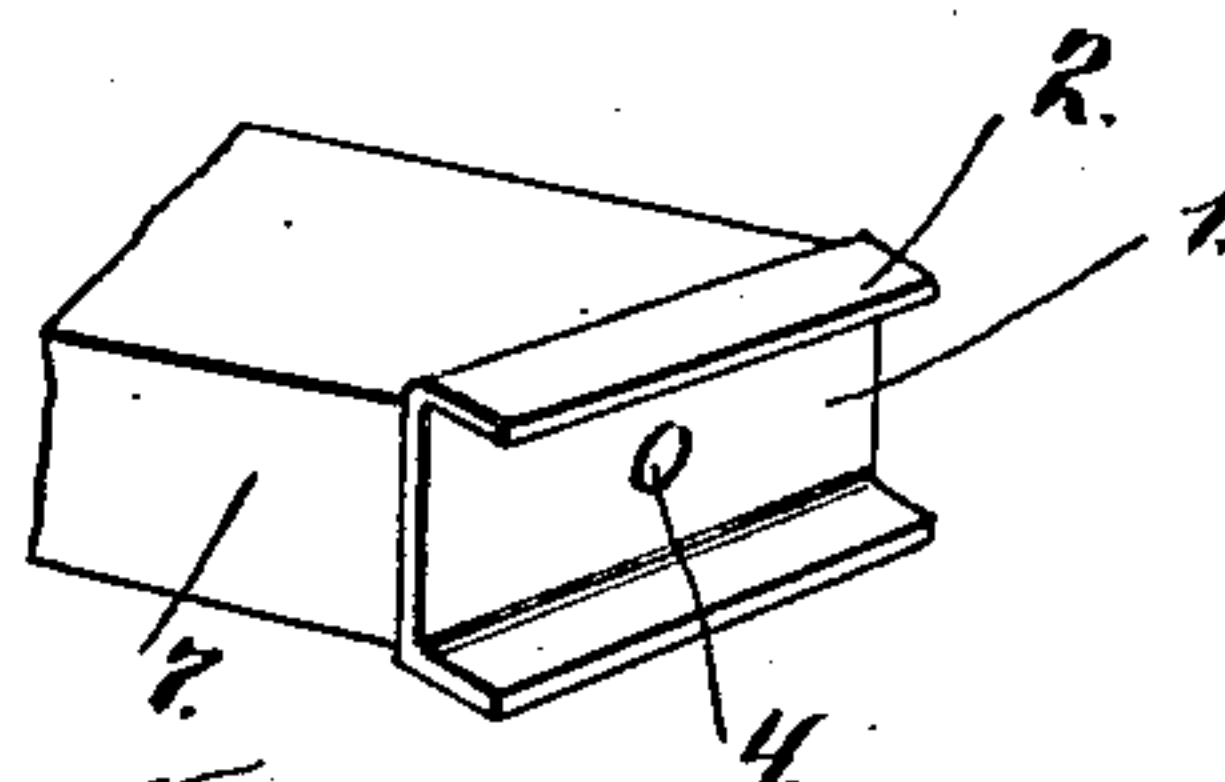


Fig. 3.

Witnesses

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# UNITED STATES PATENT OFFICE.

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## METAL CLIP.

955,003.

Specification of Letters Patent.

Patented Apr. 12, 1910.

Application filed February 20, 1909. Serial No. 479,140.

*To all whom it may concern:*

Be it known that I, JOHN W. SHIRER, a citizen of the United States of America, residing at Braddock, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Metal Clips, of which the following is a specification, reference being had therein to the accompanying drawing.

10 This invention relates to metallic clips, particularly designed for use in connection with the skeleton frame work forming the support for pressed metallic walls and ceilings.

15 The object of the invention is to provide a simple and durable metallic clip that will obviate the necessity of using nails and tacks for connecting various supporting frames of a wall or ceiling.

20 It is a well known fact that skeleton frames are arranged in connection with a wall or ceiling for supporting pressed metal plates and sheets, and that considerable trouble is experienced in nailing and tacking together the various supporting frames to which the pressed metal sheets and plates are secured, the location of chandeliers, gas jets, and similar structures making it extremely difficult to tack and nail frames together in proximity to the structure in order to support metallic plates or sheets in proper relation to the structure.

35 I remedy the above trouble by providing metallic clips that can be easily secured to the ends of frames, prior to said frames being placed in position, the clips being of a shape to firmly hold the frames in an assembled position.

40 In the drawings, Figure 1 is an elevation of a portion of a wall or ceiling illustrating the supporting frames thereof connected by metallic clips. Fig. 2 is an elevation of a portion of the supporting frames partly broken away and partly in section, and Fig. 45 3 is a perspective view of one of the clips secured to the end of a frame.

50 In carrying my invention into effect, I utilize a channel-shaped metallic bar and cut the bar in lengths according to the length of the clips to be formed, whereby each piece of the bar will represent a clip having a body 1 with the longitudinal edges thereof providing parallel flanges 2 extend-

ing from one end of the body to the other. The body 1 is provided with a central opening 3 whereby the nail or screw can be used for securing the clip to a frame.

In order that my invention can be fully understood, I have illustrated a plurality of frames 5, 6 and 7 connected by the clips. 60 It will be observed that the frames 5 have the ends thereof provided with clips embracing the frames 6, while the angularly disposed frames 7 have the ends thereof provided with clips engaging the frames 5 and 6. In constructing a ceiling it is only necessary to secure the frames 6 here and there to the joists or floor beams of a building, and then place the frames 5 and 7 in position, it being unnecessary to nail or tack these frames to the frames 6. Metallic plates or sheets 8 can then be easily attached to all of said frames.

When the frames have been assembled the flanges 2 of the clips 1 engage the opposite broad sides of the frames so as to effectively unite said frames and prevent lateral displacement.

The arrangement of the frames 7 in Fig. 1 is such that a chandelier or similar structure can be easily surrounded by supports for plates or sheets 8 to be secured in proximity to the structure.

Having now described my invention, what I claim as new, is;—

85 In combination, a plurality of frames adapted to be secured to a ceiling comprising engaging members placed at right angles to each other and members placed diagonally to said members, a part of the first members being provided with end clips having flanges engaging the opposite sides of the other frames disposed at right angles thereto and the diagonally disposed members having end clips provided with flanges engaging the opposite sides of the first described members, the flanges of said clips operating to prevent lateral displacement of said members.

In testimony whereof I affix my signature in the presence of two witnesses.

JOHN W. SHIRER.

Witnesses:

MAX H. SROLOVITZ,  
A. J. TRIGG.