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W. A. ADAMS

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TABLE, BENCH, SHELF, OR SIMILAR STRUCTURES

Original Filed June 19, 1925

Fig. 1

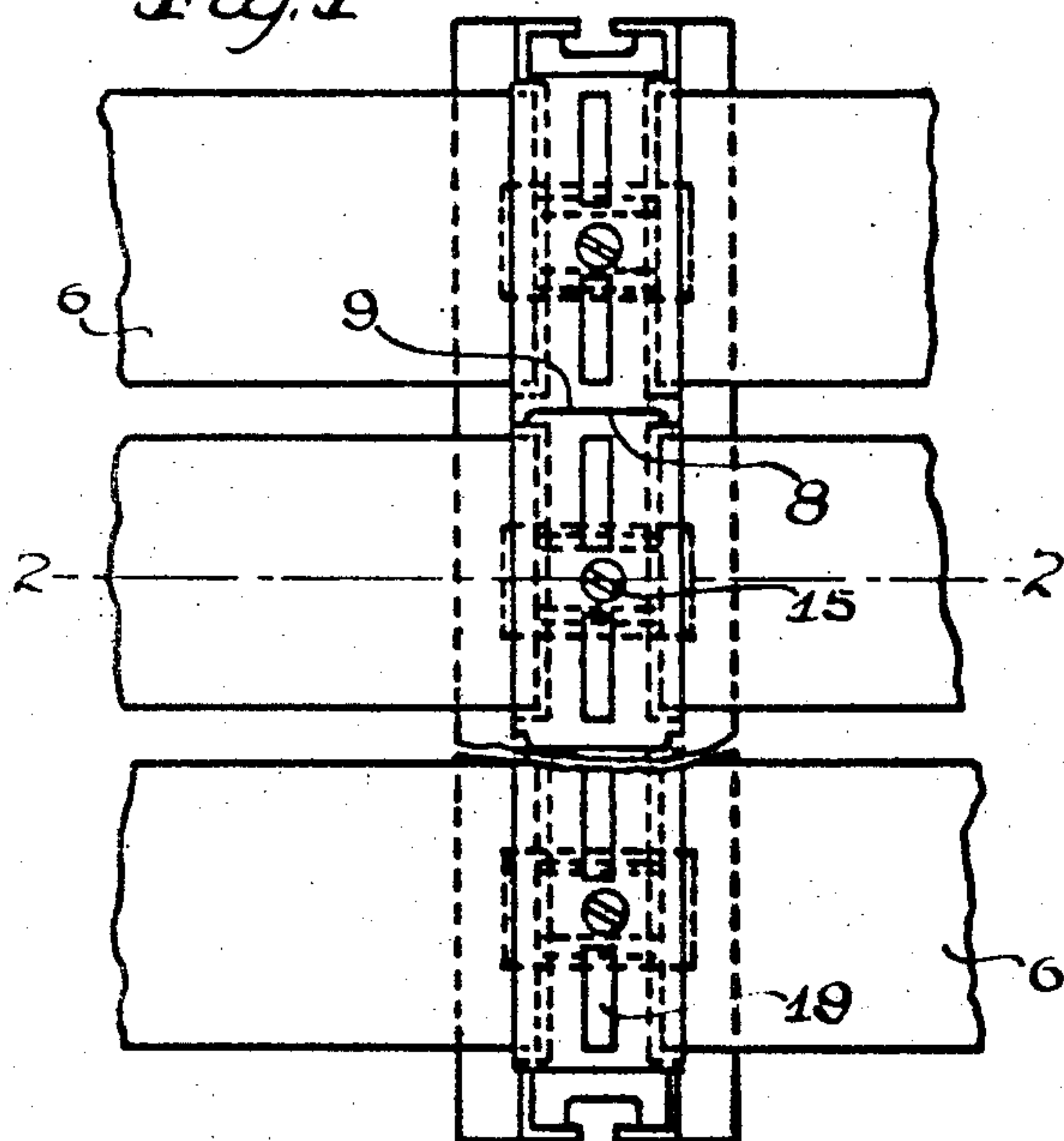
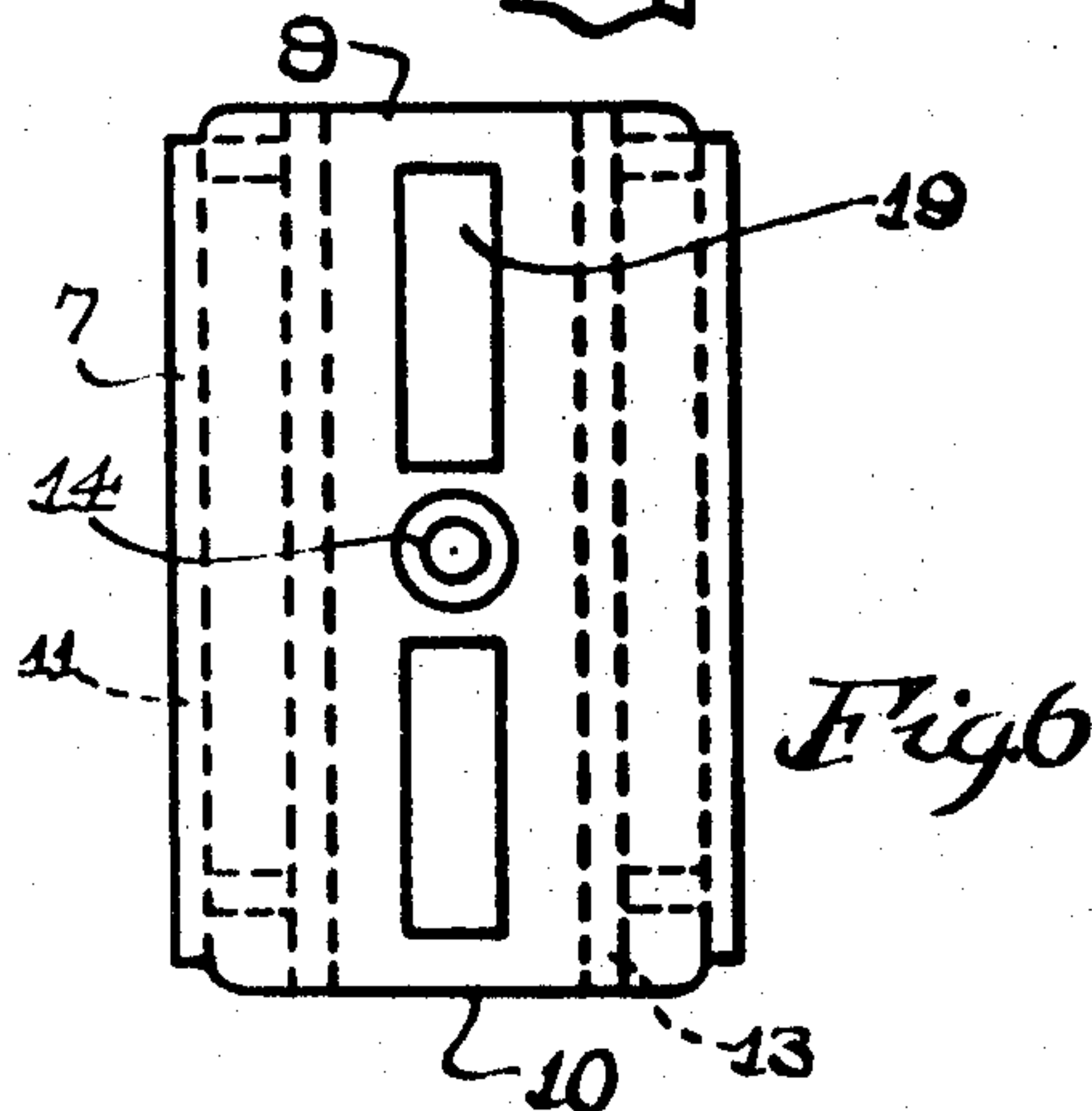
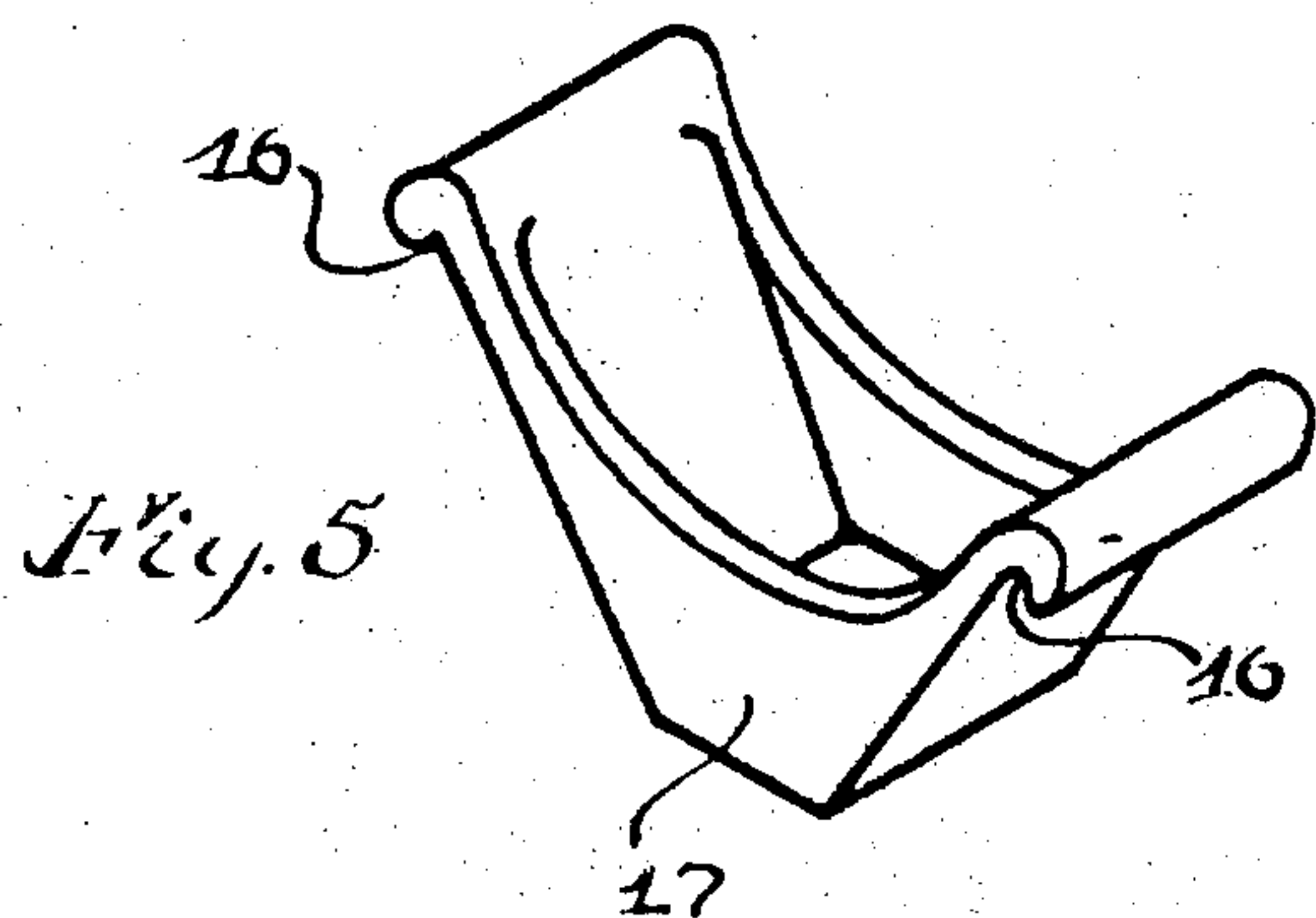
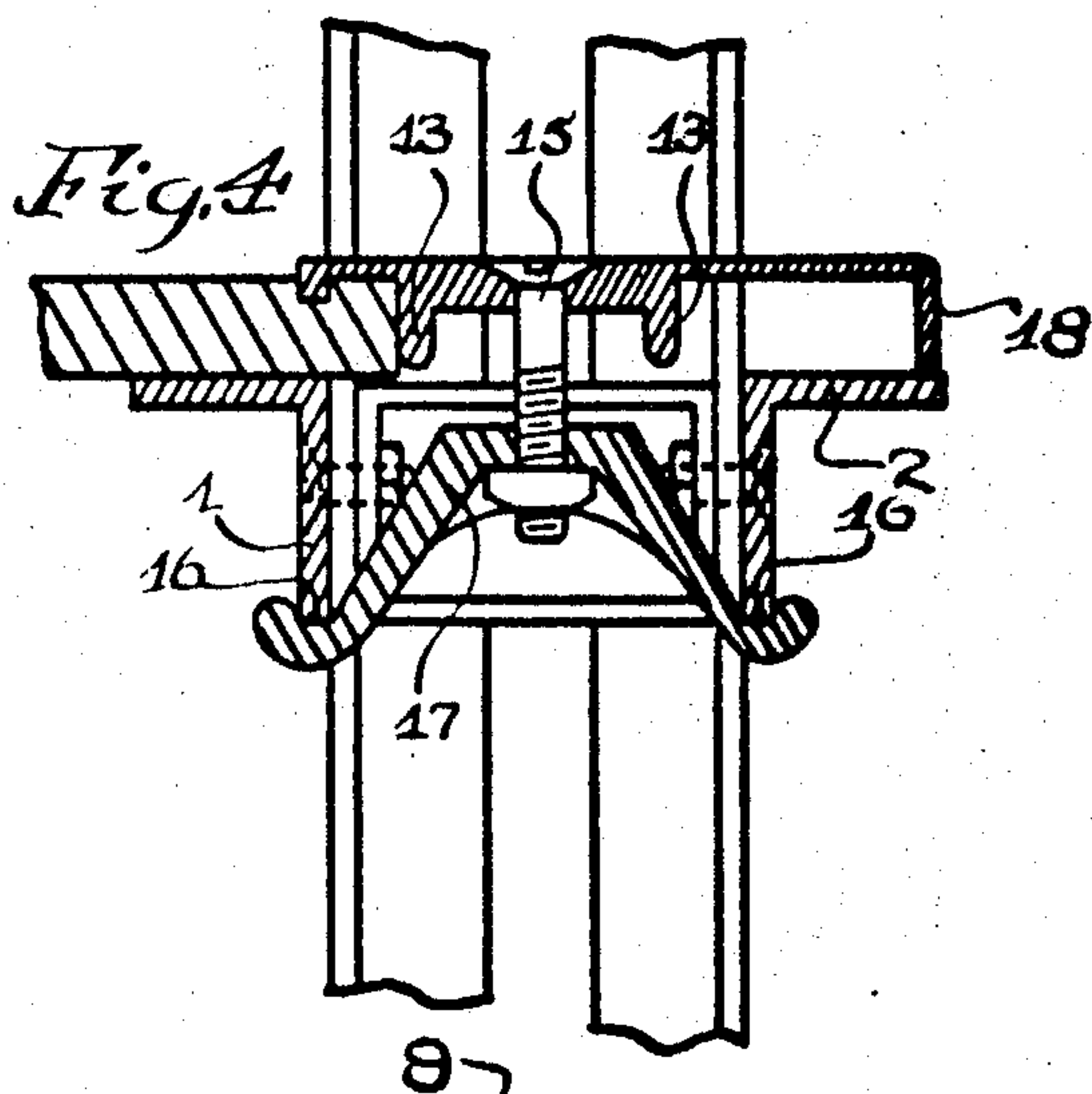
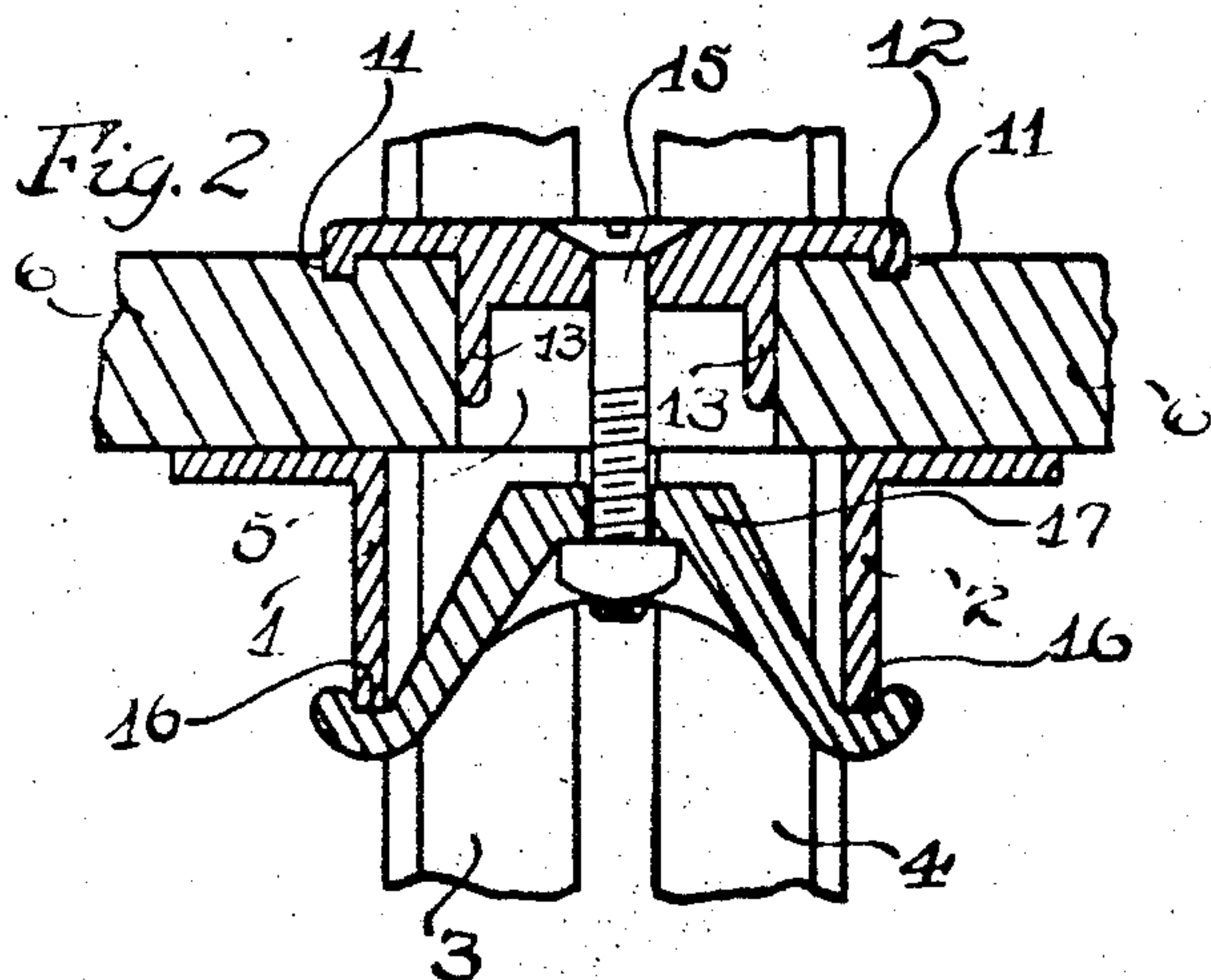
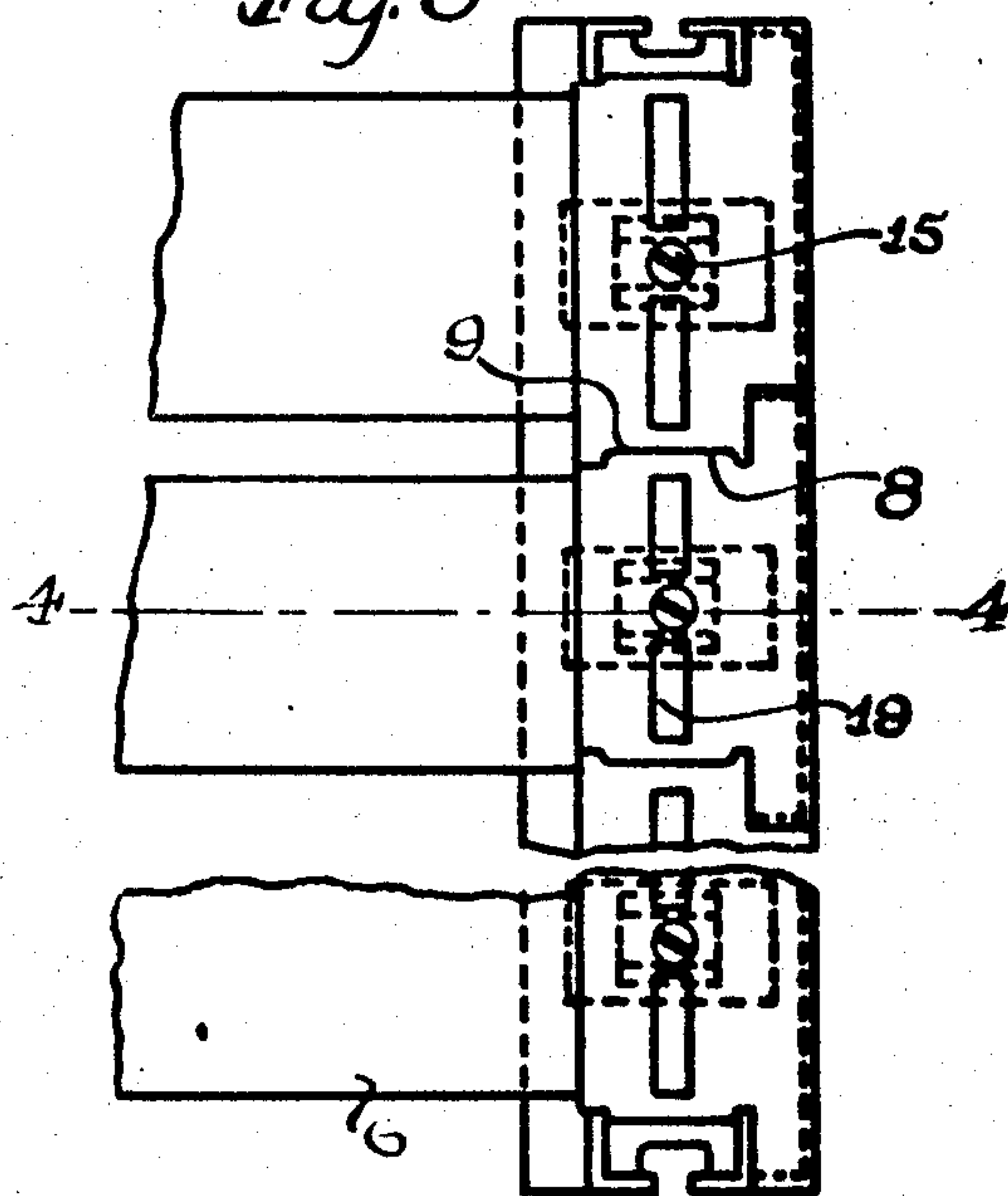


Fig. 3



INVENTOR
Walter H. Adams
BY *H. H. Linn*
ATTORNEY

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WALTER A. ADAMS, OF ROCHESTER, NEW YORK

TABLE, BENCH, SHELF, OR SIMILAR STRUCTURES

Original application filed June 19, 1925, Serial No. 38,361, now Patent No. 1,855,273. Divided and this application filed November 7, 1929. Serial No. 405,501.

The present invention relates to tables, benches, shelves or similar structures, this application being a division of an application filed by me on June 19, 1925, Serial No. 38,361, now Patent 1,855,273, on benches or tables. An object thereof is to provide a novel means of securing boards or strips to a suitable support. Another object of the invention is to provide a finished connection between the boards or strips and a support. Still another object of the invention is to provide a novel means of securing two strips or boards end to end to a suitable support. A further object is to provide a novel means of securing a plurality of boards or strips in parallel relation and side by side to a suitable support.

To these and other ends, the invention consists of certain parts and combination of parts, all of which will be hereinafter described, the novel features being pointed out in the appended claims.

In the drawing:

Fig. 1 is a fragmentary plan view of a structure in which a plurality of boards arranged in parallel relation are secured end to end with another similar set of boards to a single support;

Fig. 2 is a section on the line 2—2, Fig. 1;

Fig. 3 is a fragmentary plan view of a structure in which a single set of boards is secured to the support by means which also provides a finishing for the ends of the boards;

Fig. 4 is a section on the line 4—4, Fig. 3;

Fig. 5 is a perspective view of part of the securing means; and

Fig. 6 is a detail plan view of one of the sections of the finishing and securing strips shown in Figs. 1 and 2.

In the illustrated embodiment the support comprises two transversely extending horizontally arranged angle irons 1 and 2 supported at opposite ends in this instance, by upright angle irons 3 and 4. The angle irons 1 and 2 have two of their flanges in the same plane, and the other two parallel and spaced apart to provide an elongated slot or opening 5, the flanges 1 and 2 extending outwardly away from said opening.

In the embodiment of the invention shown in Figs. 1 and 2, the boards or strips 6 extend longitudinally and are arranged in two sets end to end, the members of each set being parallel and spaced apart, and the ends of the two sets being spaced apart over the slot or opening 5.

A combined finishing and securing strip bridges the joints between the ends of the two sets of boards, and in this instance, is formed of a plurality of transversely extending abutting sections 7 arranged in transversely extending alignment and having interlocking portions at their proximate ends formed by a notch 8 in one end of one section, receiving a projection 9 on one end of another section. The outer ends of the end sections have projections 10 which extend into the spaces between the angle iron pieces 3 and 4 at the ends of the angle iron pieces 1 and 2. Each section of the finishing strip has a holding rim 11 adjacent its margin to fit in transverse grooves 12 in the upper faces of two boards or strips 6 near the ends of the boards in order to hold the boards against movement away from the finishing strip. Each section of the finishing strip also has two depending abutments 13 for cooperating with adjacent ends of two boards held by the finishing strip, said abutments depending in the space between the two boards.

For holding the finishing strip in position to prevent the separation of the two sets of boards endwise and also to clamp the boards to the support, each section of the finishing strip may be provided between its abutments 13 with an opening 14 through which may be passed a bolt 15 which is anchored on an anchoring block or member. The latter has two spaced grooves or notches 16 in its upper face separated by a projecting portion 17 which has declining opposite sides leading to the grooves. This projecting portion extends in the slot between the two angle iron pieces 1 and 2 while the lower edges of the upright flanges of the angle irons are received in the grooves, so as to prevent lateral displacement of the anchoring device.

In the embodiment illustrated in Figs. 3 and 4, the support is the same as shown in

Figs. 1 and 2 but only one set of longitudinally extending parallel boards 6 are used. One side of the transversely extending finishing strip is identical with both sides of the finishing strip shown in Figs. 1 and 2, but the other side is wider and extends to the outer edge of the horizontal flange on the angle iron piece 2. This wider side has a marginal flange 18 which has a width substantially equal to the thickness of the boards or strips 6 held by the other side of the finishing strip, and may rest on the horizontal or upper flange of the angle iron 2 and the ends of the finishing strip interlock with the uprights.

Both forms of the invention having elongated slots or openings 19 in each of the sections of the finishing strip to be employed for the passage of bolts to secure any suitable structures such as partitions or grille work.

What I claim as my invention and desire to secure by Letters Patent is:

1. In combination with a support, a plurality of parallel boards, finishing and holding means for the ends of the boards formed of abutting sections extending transversely of the boards and means for securing the finishing means to the support to hold the boards to the support.

2. The combination with a support having two angle irons with outwardly presented flanges, of two pieces resting on said flanges, and securing means for said pieces embodying a plate connecting the adjacent ends of the pieces, an anchoring member engaging the lower edges of the flanges of the support, and a bolt connecting the plate and said anchoring member.

3. The combination with a support comprising two uprights, and connecting means between the upright embodying two angle irons with flanges presented outwardly, of two sets of pieces resting on said outwardly presented flanges, and securing means for the pieces embodying a plurality of plates interlocking with each other at their ends and also with at least one of the uprights, said plates also engaging the two sets of pieces, anchoring members cooperating with the angle irons of the frame, and bolts connecting said anchoring members with the securing plates.

4. The combination with a support comprising two uprights and connecting means between the uprights, of pieces resting upon the connecting means, and securing means for said pieces embodying a plurality of independent plates interlocking with each other to provide a row of such interlocking plates, and with the end plate in each row interlocking with the uprights.

5. The combination with a support comprising two uprights and connecting means between the uprights, of pieces resting upon

said connecting means, and securing means for the pieces embodying a plurality of plates engaging each other at their ends, said plates also engaging the pieces, anchoring members cooperating with the connecting means between the uprights, and bolts connecting the anchoring members and the securing plates.

6. The combination with a support and parallel longitudinally extending pieces resting on said support, of finishing and holding means for the ends of the pieces resting on the support and embodying a plurality of transversely arranged sections interlocking one with another and extending transversely of the pieces and individual fastening means for said sections.

7. The combination with a transversely extending support, and a plurality of pieces each having an end resting on the support, of transversely extending finishing means at one end of the pieces embodying a plurality of separable transversely aligned sections interlocking one with another at their adjacent ends, and individual fastening means for said sections.

8. The combination with a support, and a plurality of longitudinally extending pieces resting on the support, of finishing means for the ends of the pieces embodying a plurality of separable transversely aligned sections interlocking one with another at their adjacent ends, and fastening means for said sections, said sections engaging the pieces to hold the latter to the support.

9. The combination with a support, of two sets of pieces resting on the support with the ends of the two sets adjacent each other, and plates arranged end to end transversely of the pieces interlocking with each other at their adjacent ends and engaging the two sets of pieces, and means for securing the plates to the support to hold the pieces to the support.

10. The combination with a support embodying two uprights and two angle irons connecting said uprights, each having a flange horizontally arranged and extending outwardly, of a piece resting on one of said flanges, a combined finishing and securing member resting on the other flange and cooperating with said piece to secure the same, an anchoring member, and a bolt connecting the anchoring member and the combined finishing and securing member.

11. The combination with a suitable support, of a member supported by said support, a securing member for said supported member having an abutment with which one end of said supported member engages, and a projection extending into the outer surface of said supported member, said securing member having a portion which engages the support beyond one end of the supported member, and means for securing said securing

member to the support at a point between the projection and the portion which engages the support.

12. The combination with a support and
5 longitudinally extending parallel pieces resting on the support, of transversely extending finishing and holding means for the ends of the pieces embodying a plurality of transversely arranged sections interlocking one
10 with another by end to end engagement, and individual fastening means for said sections, said sections engaging the pieces to hold the latter to the support.

13. The combination with a support, of two
15 sets of longitudinally extending parallel pieces resting on the support end to end, and transversely extending securing means common to the ends of both sets of pieces and formed of independent sections arranged end
20 to end, one section having an end thereof interlocking with the end of another section.

14. The combination with a support, of two sets of pieces resting on the support with the ends of both sets adjacent each other, and
25 transversely extending plates arranged end to end and engaging the adjacent ends of the two sets of pieces, said plates having interlocking portions at their adjacent ends, and means for securing the plates to the support
30 to hold the pieces to the support.

15. The combination with a support, of a set of parallel longitudinally extending pieces supported on the support, and individual holding plates, there being one individual
35 plate for holding each piece to the support, said plates having their approximate ends interlocking, and being arranged in transverse alignment.

16. In combination with a transversely extending support, a plurality of longitudinally extending pieces transversely arranged and each having an end resting on the support, and transversely extending finishing means at one end of the pieces formed of separable abutting sections extending end to end
45 and in alignment transverse in respect to said pieces, said sections having portions engaging with the pieces, and means for securing each of said sections to the support to hold
50 the pieces to the support.

17. The combination with a transversely extending support, of a set of longitudinally extending pieces supported on the support, transversely extending securing plates arranged end to end transversely of the pieces
55 for holding the pieces to the support, and means for securing said plates to the support, whereby said plates will hold the pieces to the support, which said transversely extending
60 securing plates interlock at their adjacent ends.

WALTER A. ADAMS.