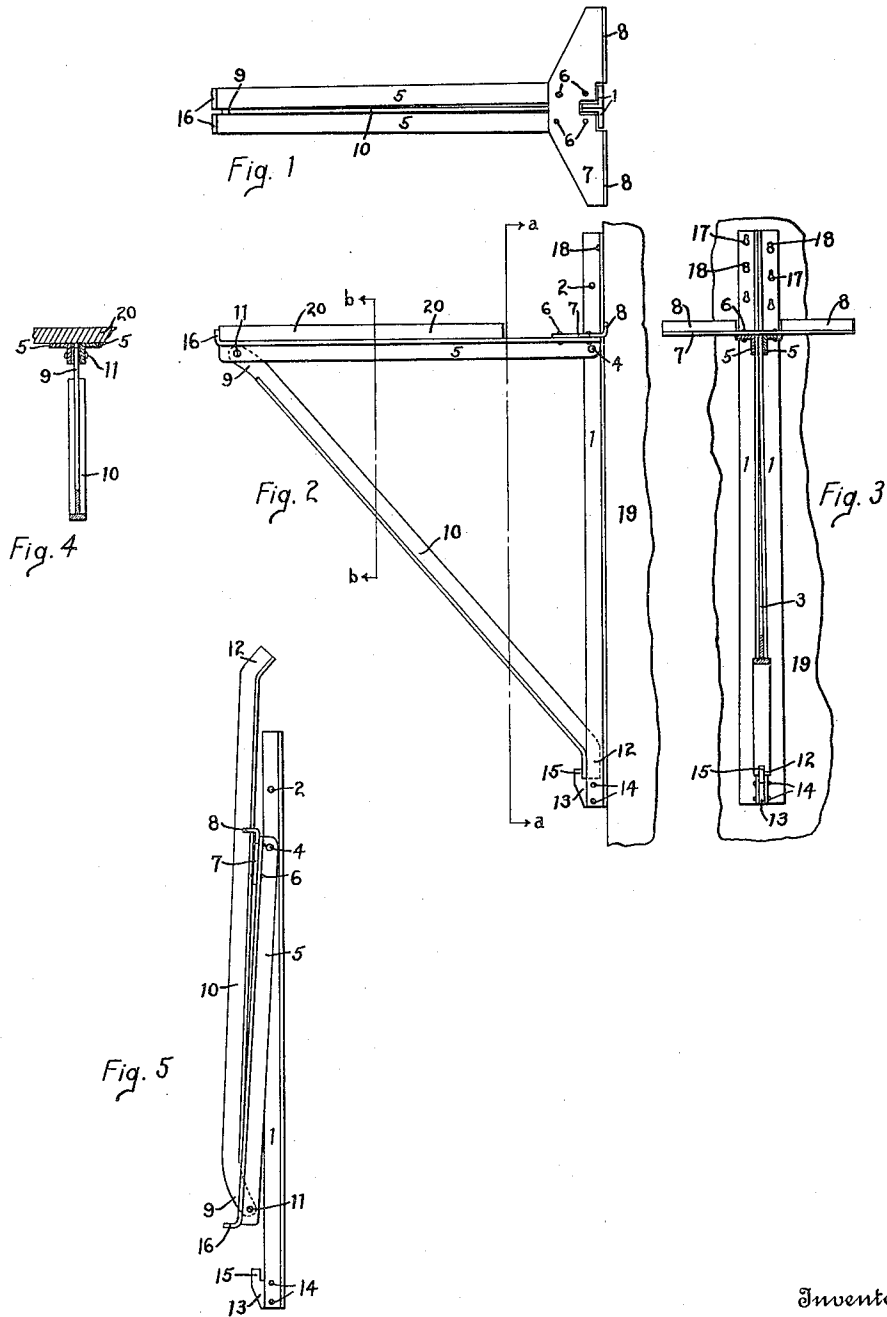


A. M. KLEPINGER.
 COLLAPSIBLE BRACKET.
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Patented Nov. 9, 1915.



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UNITED STATES PATENT OFFICE.

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COLLAPSIBLE BRACKET.

1,159,956.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, ALBERT M. KLEPINGER, a citizen of the United States, residing at Dayton, in the county of Montgomery and State of Ohio, have invented a new and useful Improvement in Collapsible Brackets, of which the following is a specification.

This invention relates to new and useful improvements in collapsible brackets.

10 The principal object of my invention is to provide for builders and others, a simple and effective bracket which may be readily collapsed or folded when not in use. My improved bracket may not only be compactly folded, but is provided with means for firmly securing it to a scaffold or other structure; and when set up, its contour and construction enable it to support great weights and resist maximum stresses.

20 The preferred form of my improved collapsible bracket is illustrated in the accompanying drawings, of which—

Figure 1 is a top plan view of the bracket. Fig. 2 is a side elevation of the same when set up for use. Fig. 3 is a section taken on the line *a—*a** of Fig. 2. Fig. 4 is a section taken on the line *b—*b** of Fig. 2. And Fig. 5 is a side view of the bracket in its collapsed condition.

30 Throughout the specification and drawings, similar reference characters denote corresponding parts.

In a detailed description of my invention, the numerals 1—1 designate two upright angle irons tightly joined at their top portions by a fixed bolt 2, but which gradually incline away from each other to provide between them an outwardly tapering opening 3 for a purpose to be hereinafter explained.

40 Passing through the joined sides of the angle irons 1—1 is a bolt 4, to which is pivotally secured a pair of angle irons 5—5 whose top faces lie in the same plane. Secured by means of bolts 6 to the top faces of the angle irons 5—5 at their pivoted ends, is a pedestal shaped plate 7 having an upturned end 8 on each side of the joined portions of the angle irons 1—1, that portion of the plate between the ends 8—8 being suitably recessed to permit the angle irons 5—5 to be raised to a horizontal position. This plate is provided to prevent a side-wise movement of the bracket, by firmly bracing

it against the structure to which it is attached.

55 The angle irons 5—5 incline inwardly from the plate 7 to their outer ends where they receive between them the curved non-flanged end 9 of a T-iron 10 which has a pivotal movement about a bolt 11 secured between said ends. The T-iron 10 terminates at its lower end in a bent portion 12 whose upright part is adapted to loosely enter the opening 3 just above a plate 13 tightly secured between the angle irons 1—1 by bolts 14. The plate 13 has an upturned portion 15 far enough removed from the angle irons 1—1 to permit the cross portion of the lower end of the T-iron 10 to be easily inserted between it and the angle irons 1—1, for support by the plate 13. When the lower end of the T-iron 10 rests upon this plate, with its upright portion within the opening 3 and cross portion between the upturned portion 15 of said plate and the angle irons 1—1, a sufficiently firm brace is provided for the angle irons 5—5 to enable them to support a great weight. Each of said angle irons 5—5 has an upturned end 16 to prevent planks or other members from slipping off the bracket when the latter is in use.

For the purpose of removably, but firmly securing the bracket to a scaffold or other structure, there is provided in the upper end of each of the rear sides of the angle irons 1—1, a series of key-shaped slots 17 to receive nails 18 or other securing means attached to a studding 19.

When folded up, the bracket appears as shown in Fig. 5. In this condition it may be readily carried from place to place and set up as follows. The T-iron is drawn downwardly about the pivot bolt 11, and the angle irons 5—5 moved upwardly about the pivot bolt 4 to a point that will permit the upright portion of said T-iron to enter the opening 3 between the angle irons 1—1, and the cross portion thereof to descend inside of the upturned portion 15 of the plate 13. The lower end of the T-iron 10 is then forced downwardly until it engages the plate 13, on which it will firmly and securely rest to hold the angle irons 5—5 in a proper horizontal position to receive and support a member 20, as shown in Fig. 2.

It will now be seen that my bracket may

be quickly converted from a collapsed position to one in which it is practically non-yielding to weights and stresses. Its strength, the ease with which it may be collapsed and assembled, and the compact position it assumes when folded, are the great advantages my bracket has to commend its use.

I do not wish to be limited to the details of construction and arrangement herein shown and described, and any changes or modifications may be made therein to suit different conditions of use.

Having described my invention, I claim:
1. In a collapsible bracket, an upright portion, a projecting arm pivotally connected to the upper end of said upright portion, a T-iron pivotally connected to the outer end of said projecting arm, said upright portion being provided with a longitudinal opening at its lower end to receive the tongue portion of the lower end of said T-iron, a notched member fixedly secured within said opening, the lower end of said T-iron being bent to vertically rest upon said

notched member after the tongue portion of said iron has entered said longitudinal opening, substantially as described.

2. In a collapsible bracket, an upright member, a projecting arm pivotally connected to the upper end of said upright member, a T-iron pivotally connected to the outer end of said projecting arm, said upright member having a longitudinal opening formed in its lower end to receive the tongue portion of the lower end of said T-iron, a plate fixedly secured within said opening, the lower end of said T-iron being bent to vertically rest upon said plate after the tongue portion of said T-iron has entered said longitudinal opening, and a finger portion on said plate to engage and hold the bent end of the T-iron within said opening, substantially as described.

In testimony whereof I have hereunto set my hand this 19th day of October, 1914.

ALBERT M. KLEPINGER.

Witnesses:

CARL W. LENZ,
NEIL W. EYER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."