

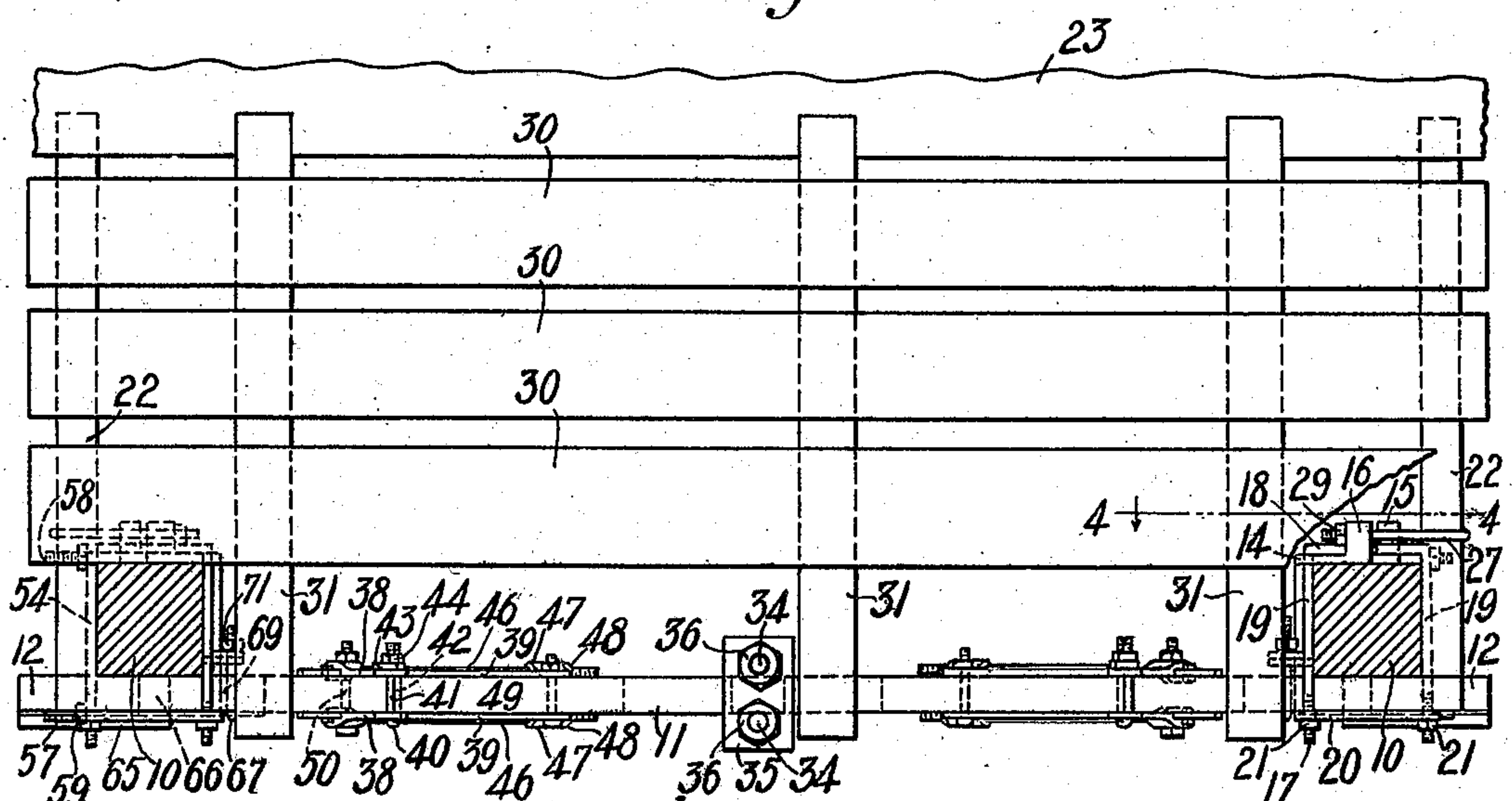
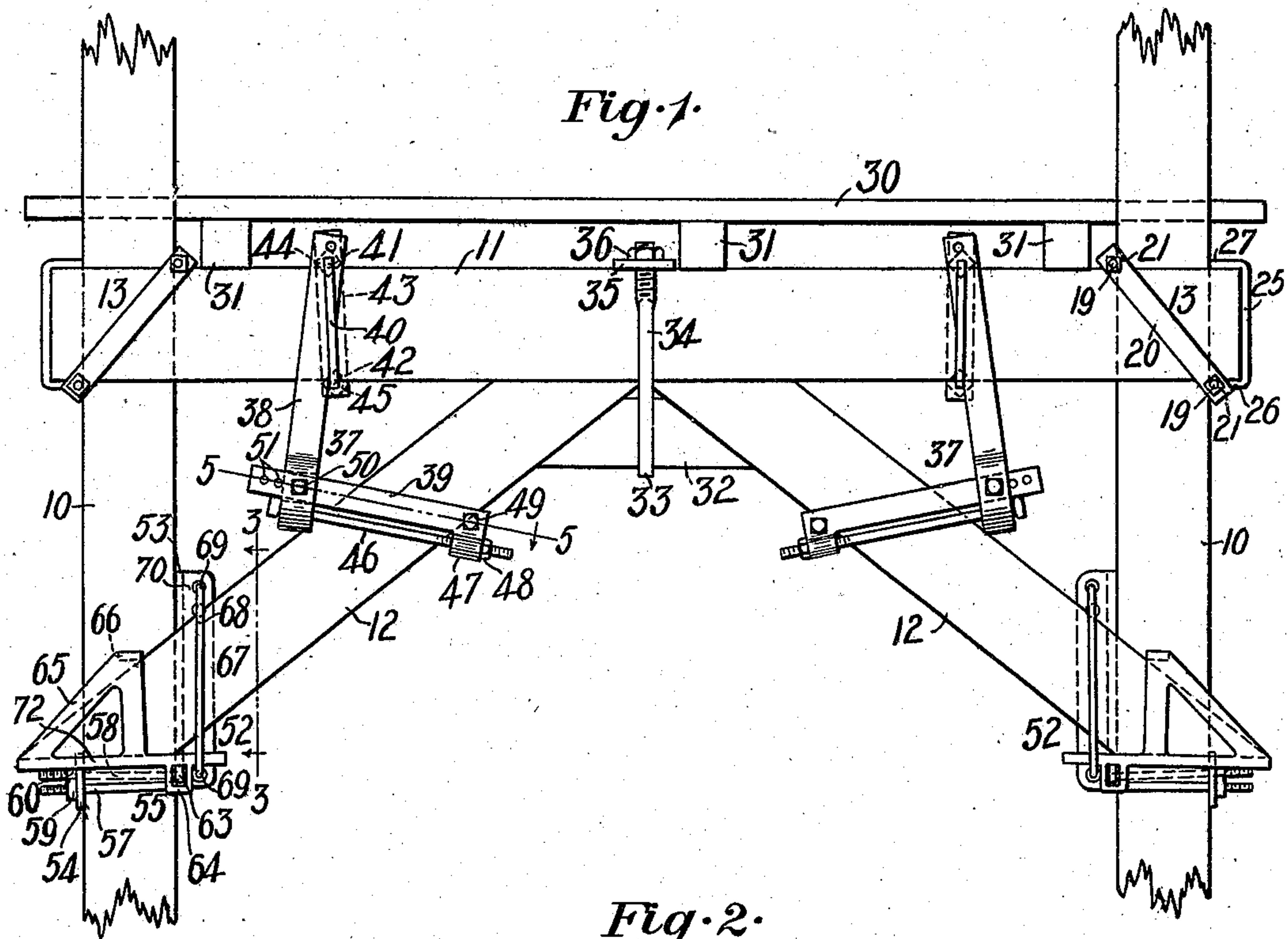
No. 881,232.

PATENTED MAR. 10, 1908.

D. FLATLEY.
SCAFFOLD.

APPLICATION FILED JULY 24, 1907.

2 SHEETS—SHEET 1.



Witnesses:
Walter L. Pierce
Francis H. Bishop

Inventor:
Dominick Flatley.
by his Att'y
Charles S. Gooding

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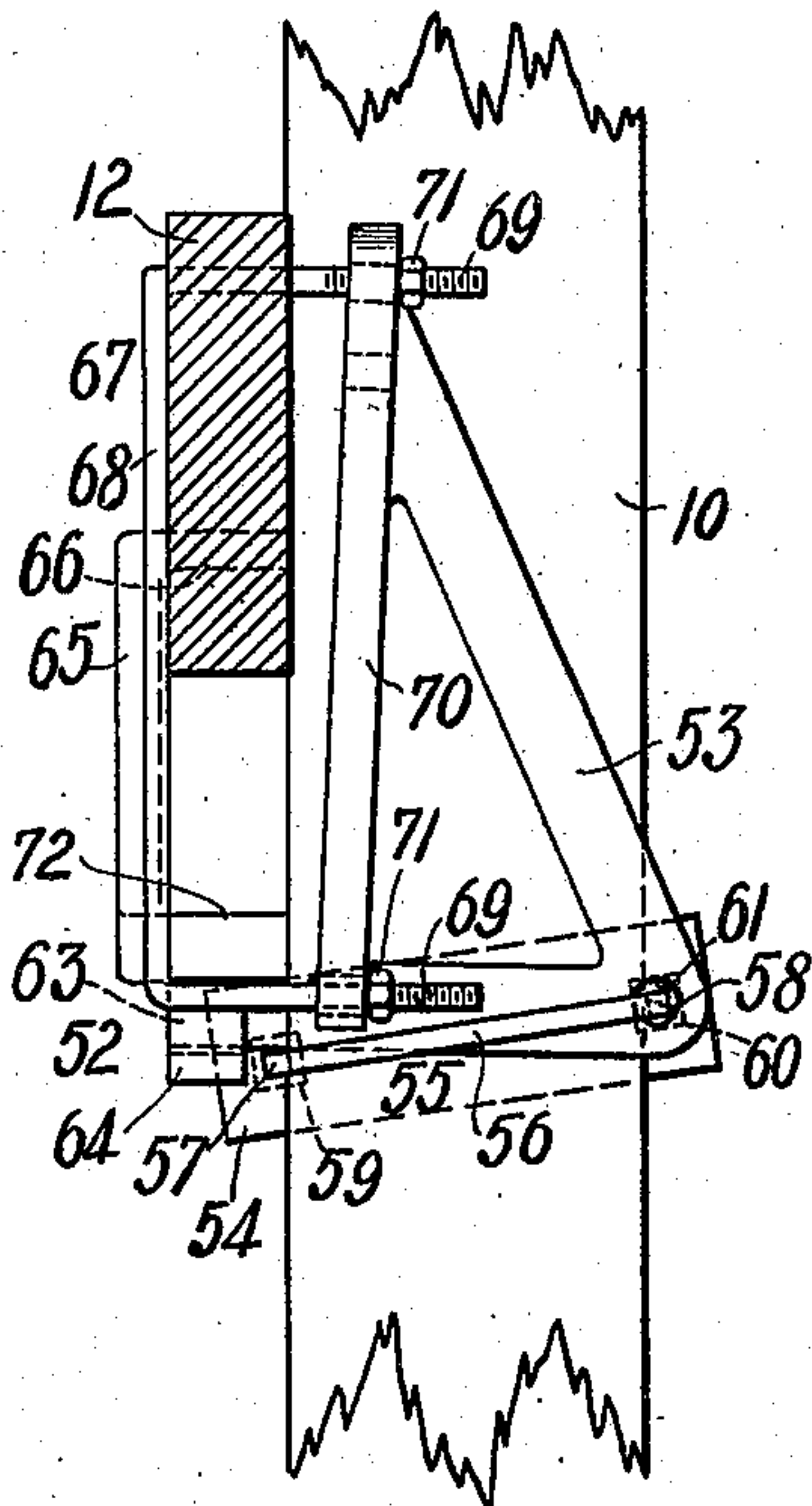


Fig. 3.

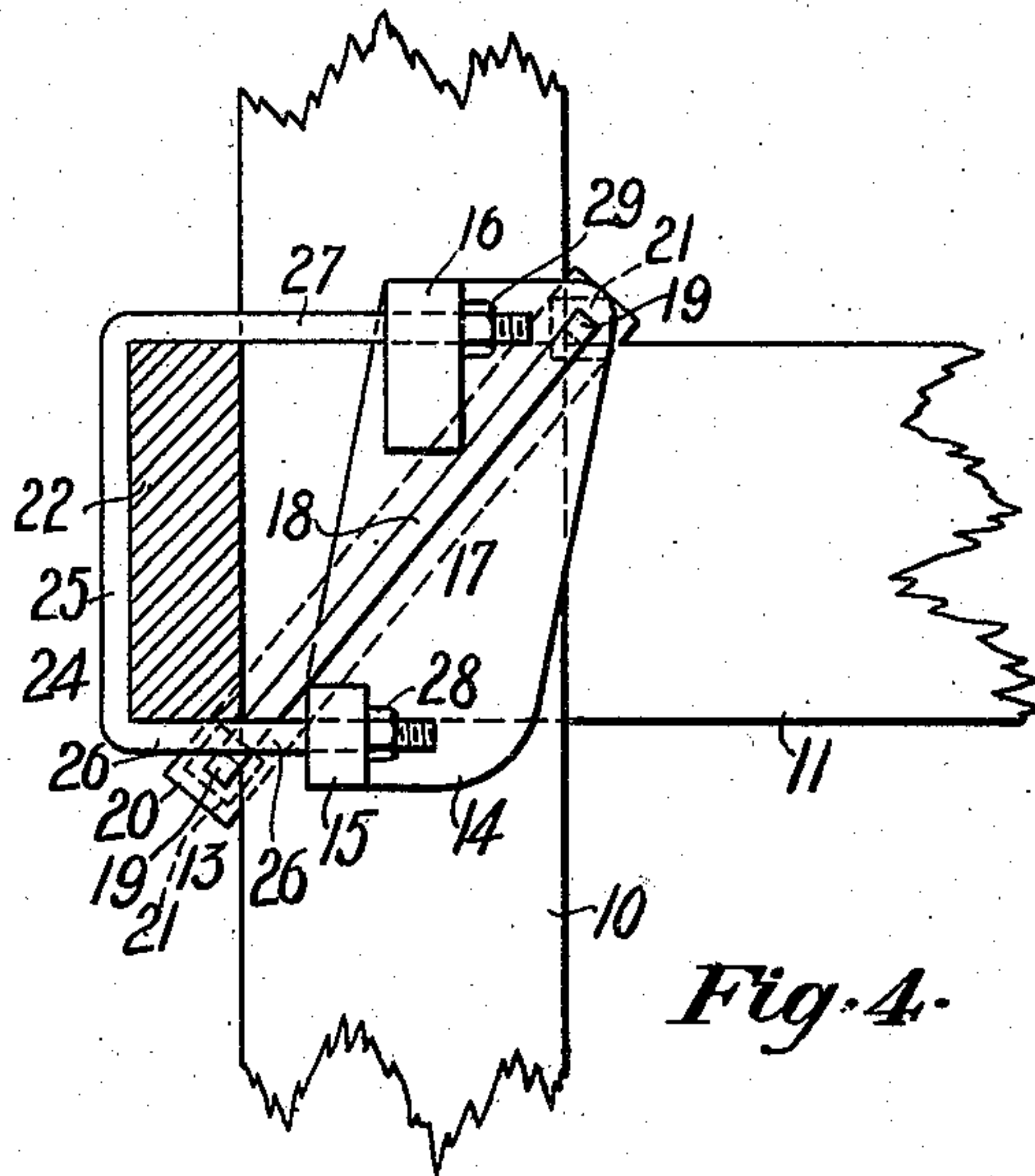


Fig. 4.

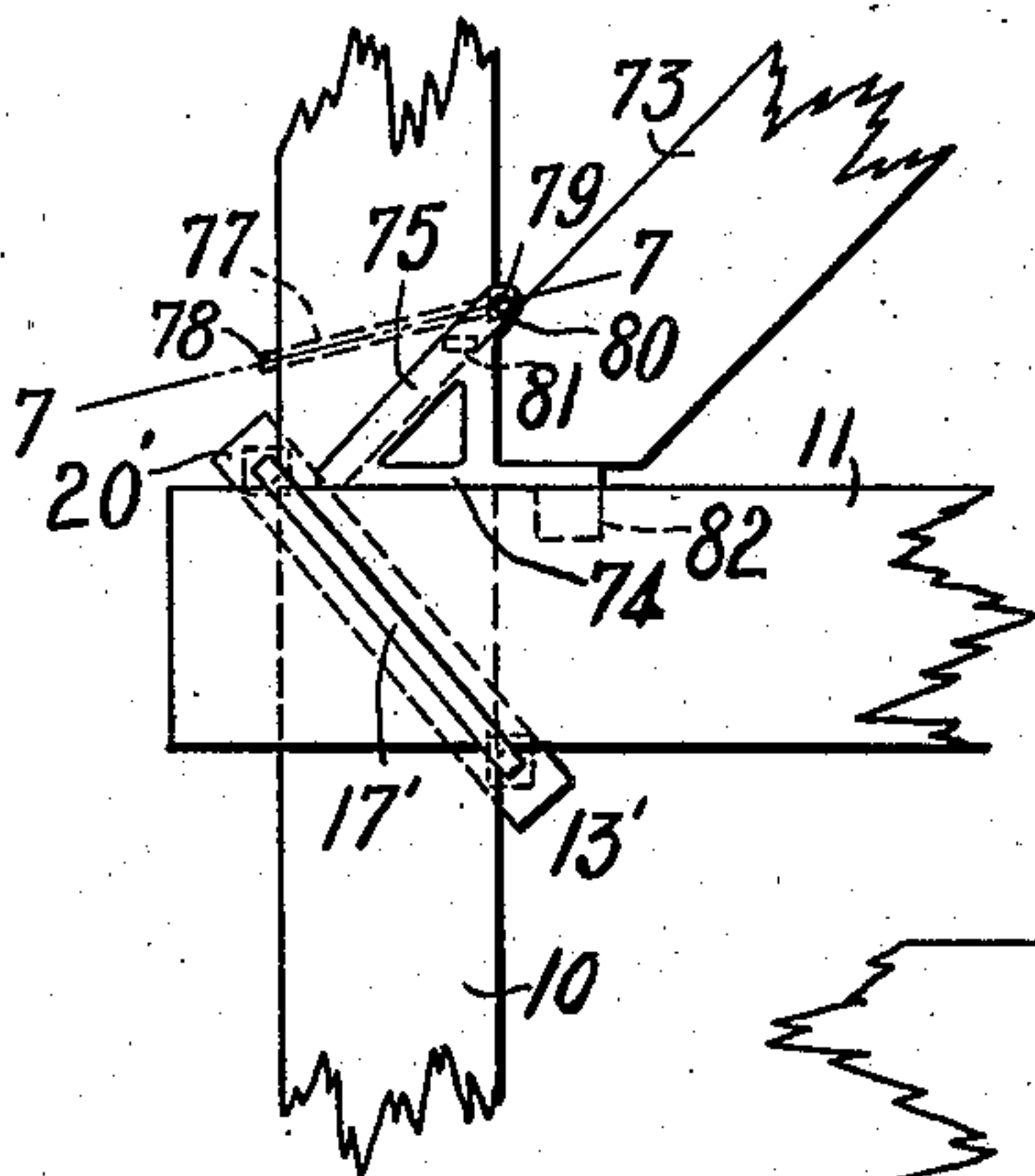


Fig. 6.

Fig. 5.

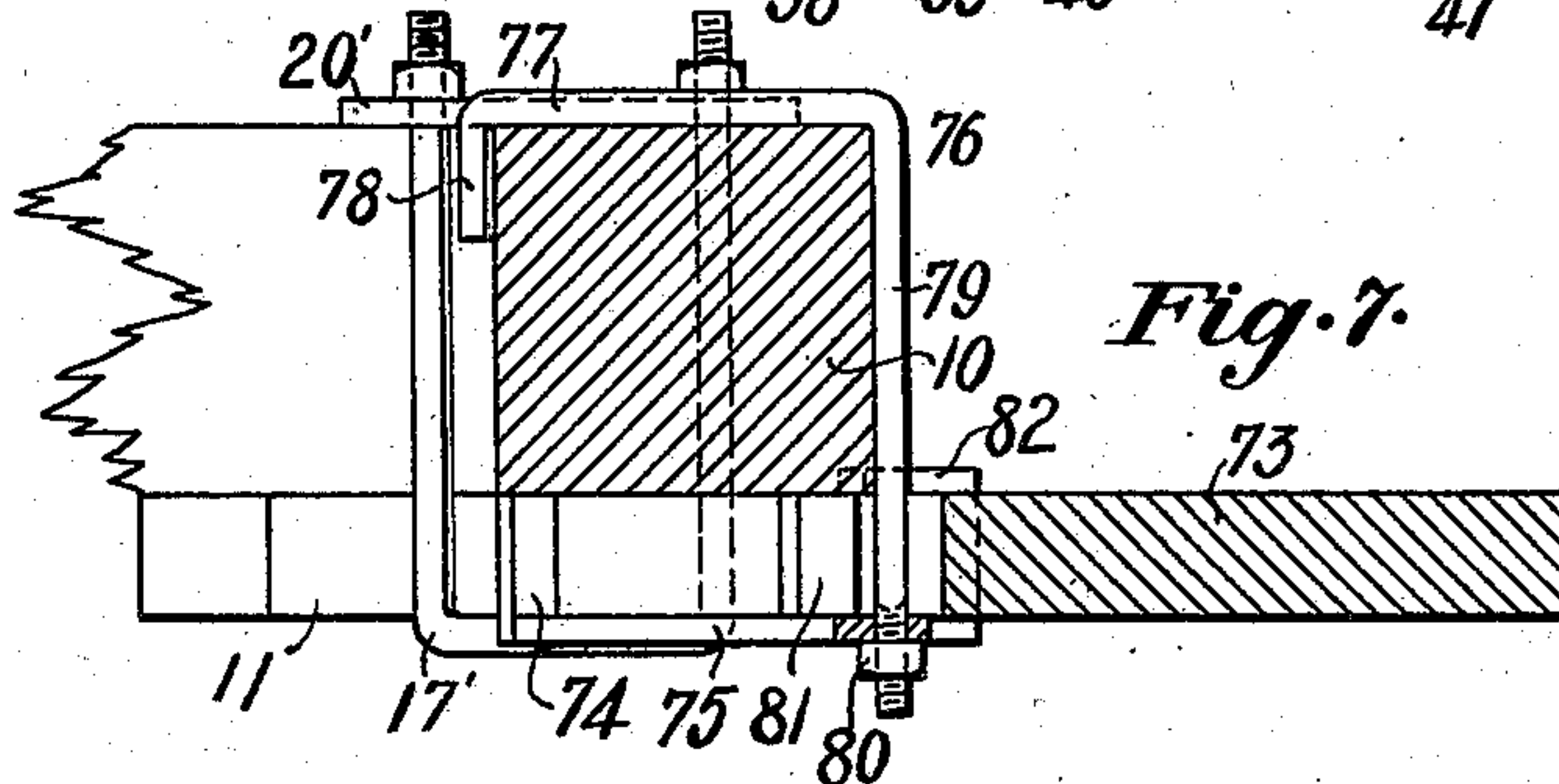
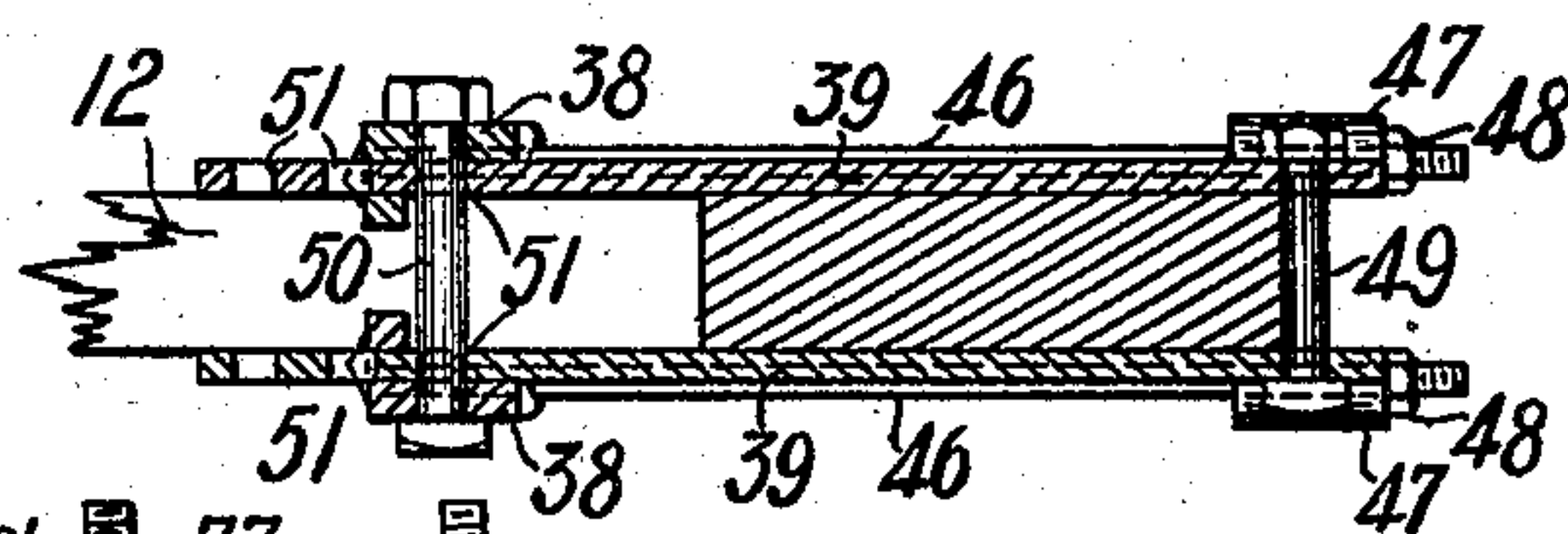


Fig. 7.

Witnesses:

Walter L. Pinner
Francis A. Bishop

Inventor:

Dominick Flatley.

by his Atty,

Charles S. Fordney.

UNITED STATES PATENT OFFICE.

DOMINICK FLATLEY, OF MANCHESTER, MASSACHUSETTS.

SCAFFOLD.

No. 881,232.

Specification of Letters Patent.

Patented March 10, 1908.

Application filed July 24, 1907. Serial No. 385,304.

To all whom it may concern:

Be it known that I, DOMINICK FLATLEY, a citizen of the United States, residing at Manchester, in the county of Essex and State of Massachusetts, have invented new and useful Improvements in Scaffolds, of which the following is a specification.

This invention relates to improvements in scaffolds, and the object is to provide a scaffold which can be readily put together and taken apart, which is strong and simple in its construction and which can be readily put together without the use of screws, nails or bolts driven into the woodwork.

The invention consists in the combination and arrangement of parts set forth in the following specification and particularly pointed out in the appended claims.

Referring to the drawings: Figure 1 is a front elevation of my improved scaffold, the uprights being broken away to save space in the drawings. Fig. 2 is a plan of the same showing a portion of a wall in connection therewith, one of the planks being partly broken away to better disclose one of the clamps which secures the ledgerboard to the upright. Fig. 3 is an enlarged detail sectional elevation taken on line 3—3 of Fig. 1, looking toward the left. Fig. 4 is an enlarged sectional elevation taken on line 4—4 of Fig. 2, looking in the direction of the arrow on said line. Fig. 5 is an enlarged detail plan section taken on line 5—5 of Fig. 1. Fig. 6 is a detail front elevation of a brace and clamp which I employ in case I desire to extend the uprights to a point much higher than shown in Fig. 1 in which case two diagonal braces resting on the ledgerboard are necessary. Fig. 7 is an enlarged detail plan section taken on line 7—7 of Fig. 6.

Like numerals refer to like parts throughout the several views of the drawings.

In the drawings, 10, 10 are uprights, 11 is a ledgerboard extending transversely of said uprights and 12, 12 are diagonal braces. The ledgerboard 11 is clamped to the uprights 10, 10 by means of clamps 13, 13, said clamps being in all respects similar to each other except that one is made left and the other right. A description of the right hand clamp 13 will suffice for both. A plate 14 provided with two ears 15 and 16 is mounted on the back of the upright 10, there being a U-shaped bolt 17 having a cross piece 18 and two legs 19, 19, the cross piece 18 extending across the back of the plate 17 between the

ears 15 and 16. The legs 19, 19 extend through a clamp plate 20, and the upper leg preferably extends through the plate 14 there being two nuts 21, 21 having screw-threaded engagement with said legs, respectively. The cross piece 18 and the clamp plate 20 extend diagonally across the ledgerboard 11 and the upright 10.

A wooden member 22 which may rest upon the wall 23 or may be secured thereto in any desired manner is clamped against the upright 10 by means of a U-shaped bolt 24 consisting of a cross piece 25 and two legs 26 and 27, said legs extending through the ears 15, and 16, respectively, there being two nuts 28 and 29 having screw-threaded engagement with the legs 26 and 27, respectively, whereby the cross piece 25 may be drawn tightly across the wooden member 22 to clamp said member against the upright 10. The ordinary planks 30 may rest upon cross pieces or put-logs 31 resting upon the ledgerboard 11 and the wall 23 or said planks may rest directly on the members 22. A member 32 bearing against the lower edges of the diagonal braces 12, 12 and separated from the ledgerboard 11 by a space is drawn rigidly against said edges by means of a U-shaped bolt 33 having two legs 34, 34 which extend through a clamp plate 35, there being two nuts 36, 36 having screw-threaded engagement with said legs whereby pressure when applied upwardly to the member 32 tends to spread apart the upper ends of the braces 12, 12 and clamp said braces against the ledgerboard 11. The braces 12, 12 are still further secured to the ledgerboard 11 by means of two clamps 37, 37, one of which is made left and the other right, the clamps 37 being in other respects alike a description of the left hand clamp will suffice.

A pair of members 38, 38 extending transversely of the ledgerboard 11 are arranged to slide longitudinally of a pair of members 39 which extend transversely of the brace 12. A U-shaped bolt 40 is provided with two legs 41 and 42, the leg 41 extending through the members 38 and through a clamp plate 43, while the leg 42 extends beneath the ledgerboard 11 and through said plate, there being two nuts 44 and 45 having screw-threaded engagement with said legs, respectively. Two bolts 46, 46 extending longitudinally of the members 39, pass through the lower ends of the members 38, 38 and through lugs 47, 47 formed

on said members 39, 39. Two nuts 48, 48 having screw-threaded engagement with the bolts 46, 46 are arranged when rotated in the proper direction to draw the lower ends 5 of the members 38, 38 longitudinally of the members 39, 39 toward the lugs 47, 47. A bolt 49 passing through the members 39 is arranged in contact with the lower edge of the brace 12. When placing the clamp in 10 position the workman rotates the nuts 48 in the proper direction to draw the lower ends of the members 38 toward the lugs 47 as just described and the effect is to rock the members 38 and the U-shaped bolt 40 on 15 the leg 41 as a center, whereby a powerful cramping action takes place, securely fastening the clamp 37 to the ledgerboard 11 and securing the brace 12 to said ledgerboard. When the nuts 48 are properly 20 tightened, the workman then slips a bolt 50 through one of the holes 51, through the members 38 and 39 thus taking all of the strain off of the bolts 46 and nuts 48.

The lower ends of the diagonal braces 12 25 are clamped to the uprights 10 by clamps 52, 52 which are identical in all respects except that one is made a right and the other a left and a description of the left hand clamp will suffice. Two plates 53, and 54 30 are arranged on opposite faces, respectively, of the upright 10, there being a U-shaped bolt 55 consisting of a cross piece 56 and two legs 57 and 58, said legs passing through said plate 54, there being two nuts 59 and 35 60 having screw-threaded engagement with the legs 57 and 58, respectively. The leg 58 passes through a hole 61 in the plate 53 and said plate is arranged to swing on said leg as a pivot. The plate 53 bears against 40 the leg 57 in such a manner that when pressure is applied to said plate in the proper direction to rock said plate downwardly on the leg 58, the effect is to cramp the U-shaped bolt 55 against the front and back faces of 45 the upright 10. The plate 53 is provided with a projection 63 which extends through a hole formed in a lug 64 forming a part of a plate 65 arranged on the front face of the upright 10.

50 The left hand end of the plate 65 rests upon the front end of the plate 54 (see Fig. 1) and the plate 65 is provided with a lug 66 against which the upper edge of the diagonal brace 12 bears. A U-shaped bolt 67 con- 55 sisting of a cross piece 68 and two legs 69, 69 is arranged with said legs passing through a flange 70 formed on the plate 53, there being two nuts 71, 71 having screw-threaded engagement with the legs 69, 69, respec- 60 tively, whereby the brace 12 is rigidly clamped against the upright 10. The lower end of the brace 12 rests upon a flange 72 formed on the plate 65. In case it is desired to build up beyond the ledger board 11, I 65 provide a diagonal brace 73, as shown in

Fig. 6, resting at its lower end against a flange 74 formed on a plate 75, said flange resting on the upper edge of the ledger board 11. In this case a clamp 13' is employed, said clamp consisting of a U-shaped bolt 70 17' and a clamp plate 20'.

A U-shaped bolt 76 consisting of a cross piece 77 and two legs 78 and 79 secures the plate 75 to the upright 10, the leg 79 passing through the plate 75 and having screw- 75 threaded engagement with a nut 80. The plate 75 is provided with a lug 81 against which the upper edge of the brace 73, bears, said plate being also provided with a lug 82 which extends down behind the ledger 80 board 11.

Having thus described my invention, what I claim and desire by Letters Patent to secure is:

1. In a scaffold, an upright, a horizontal 85 member extending across one face thereof, a plate located on the opposite face of said upright, said plate provided with two lugs, a second horizontal member extending across a third face of said upright at right angles to 90 said first member, a U-shaped bolt having two legs which extends through said lugs, respectively, two nuts having screw-threaded engagement with said legs, respectively, a second U-shaped bolt consisting of a cross 95 piece and two legs, said cross piece extending across said piece between said lugs, a second plate through which said second-named legs project, said second plate arranged in contact with and extending diagonally across 100 said first member, and two nuts having screw-threaded engagement with said second-named legs, respectively.

2. In a scaffold, an upright, two plates located on opposite sides, respectively, of said 105 upright, a third plate located on a third side of said upright and supported by said first two plates, a diagonal brace extending upwardly at an angle to said upright and supported on said third plate, a U-shaped bolt 110 provided with two legs extending through one of said first two plates, the other of said first two plates being supported by said U-shaped bolt, and two nuts having screw-threaded engagement with said legs, respec- 115 tively.

3. In a scaffold, an upright, two plates located on opposite sides, respectively, of said upright, a third plate located on the third side of said upright and provided with a 120 flange resting on said first two plates, a diagonal brace extending upwardly at an angle to said upright and resting on said flange, a U-shaped bolt provided with two legs extending through one of said first two plates, one of 125 said legs extending through the other of said first two plates, the other of said two legs extending beneath said other plate, and two nuts having screw-threaded engagement with said legs, respectively. 130

4. In a scaffold, an upright, two plates located on opposite sides, respectively, of said upright, a third plate located on a third side of said upright, and provided with a flange resting on said first two plates, said third plate also provided with a lug located above said flange, a diagonal brace extending upwardly at an angle to said upright and resting on said flange, the upper edge of said brace bearing against said lug, a U-shaped bolt provided with two legs extending through one of said first two plates, one of said legs extending through the other of said first two plates, the other of said legs extending beneath said plate, two nuts having screw-threaded engagement with said lugs, respectively, said other plate being provided with a projecting flange, a second U-shaped bolt having two legs extending through said flange, and two nuts having screw-threaded engagement with said legs, whereby said brace is clamped to said upright.

5. In a scaffold, an upright, a horizontal ledgerboard fast to said upright, a diagonal brace fast at its lower end to said upright and arranged with its upper end resting against the underside of said ledger board, a member extending transversely of said brace, a second member extending transversely of said ledger board and arranged to move longitudinally of said first member, means to secure said second member to said ledger board, means on said first member to engage the lower edge of said brace, and means to move said second member longitudinally of said first member toward said second means.

6. In a scaffold, an upright, a horizontal ledger board fast to said upright, a diagonal brace fast at its lower end to said upright and arranged with its upper end resting against the under side of said ledger board, a member extending transversely of said brace, a second member extending transversely of said ledger board and arranged to move longitudinally of said first member, means to secure said second member to said ledger board, means on said first member to engage the lower edge of said brace, and a screw arranged to move said second member longitudinally of said member toward said second means.

7. In a scaffold, an upright, a horizontal ledger board fast to said upright, a diagonal brace fast at its lower end to said upright and arranged with its upper end resting against the underside of said ledger board, a pair of members extending transversely of said brace on opposite sides, respectively, thereof, a second pair of members extending transversely of said ledger board on opposite sides, respectively, thereof and arranged to slide

longitudinally of said first pair of members, a U-shaped bolt having one leg passing through said second pair of members above said ledger board and having a second leg passing beneath said ledger board, a plate through which said legs extend, two nuts having screw-threaded engagement with said legs, respectively, a pair of bolts passing through said second members, respectively, extending longitudinally of said first pair of members, a pair of nuts having screw-threaded engagement with said bolts, respectively, and means on said first pair of members arranged in contact with the lower edge of said members.

8. In a scaffold, an upright, a horizontal ledger board fast to said upright, a diagonal brace fast at its lower end to said upright and arranged with its upper end resting against the under side of said ledger board, a pair of members extending transversely of said brace on opposite sides, respectively, thereof, a second pair of members extending transversely of said ledger board on opposite sides, respectively, thereof and arranged to slide longitudinally of said first pair of members, a U-shaped bolt having one leg passing through said second pair of members above said ledger board and having a second leg passing beneath said ledger board, a plate through which said legs extend, two nuts having screw-threaded engagement with said legs, respectively, a pair of bolts passing through said second members, respectively, extending longitudinally of said first pair of members, a pair of nuts having screw-threaded engagement with said bolts, respectively, means on said first pair of members arranged in contact with the lower edge of said brace, and a member passing through said first pair of members and through said second pair of members.

9. In a scaffold, an upright, a ledger board fast to said upright, a plate provided with a flange resting on said ledger board and a lug extending toward said upright, a diagonal brace resting against said flange and against said lug, a U-shaped bolt having one leg extending along one face of said upright and through said plate, the other leg of said bolt extending along the opposite face of said upright, and a nut having screw-threaded engagement with said first leg, whereby said leg is clamped to said upright.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

DOMINICK FLATLEY.

Witnesses:

LOUIS A. JONES,
SADIE V. MCCARTHY.