

(No Model.)

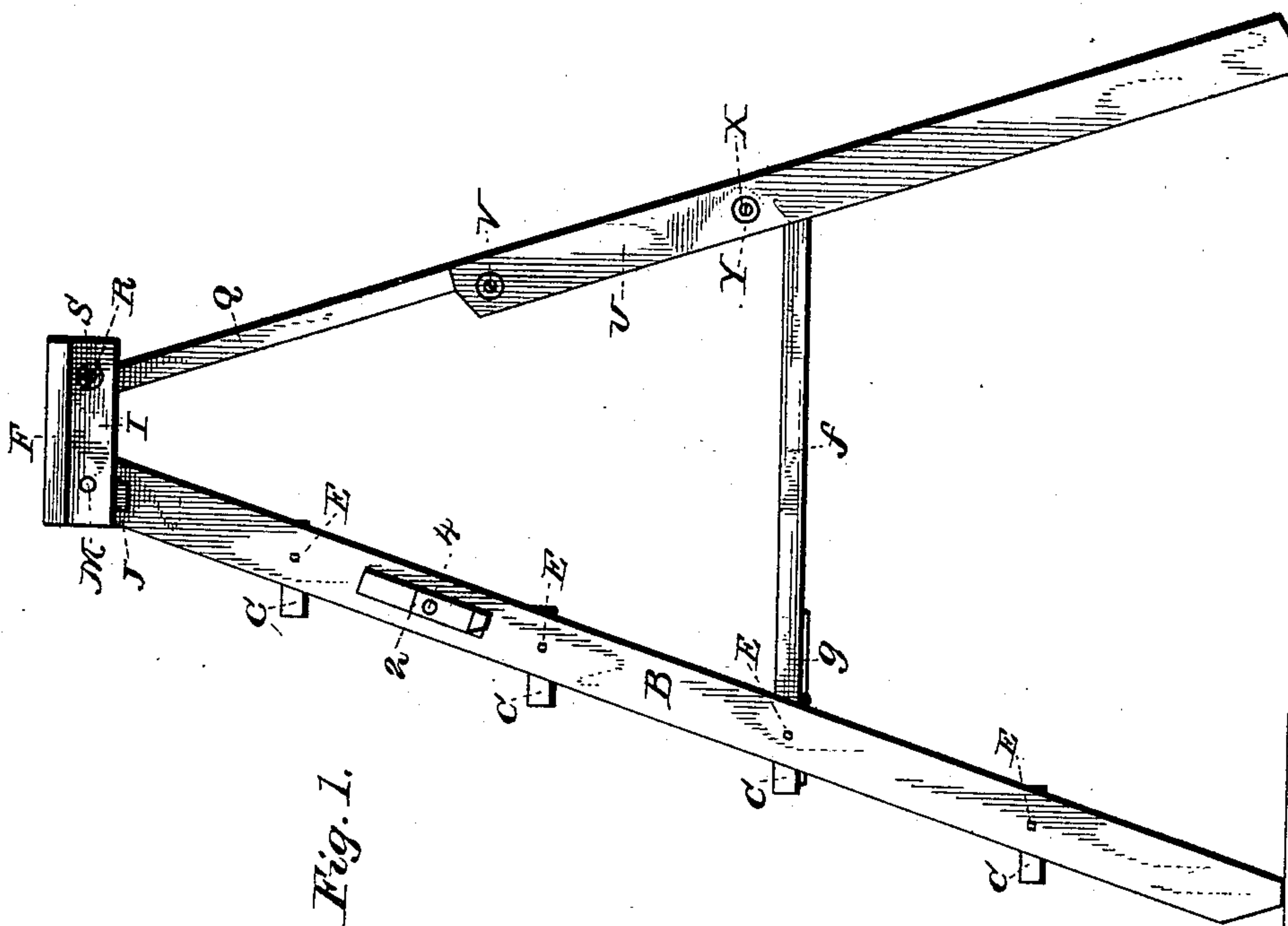
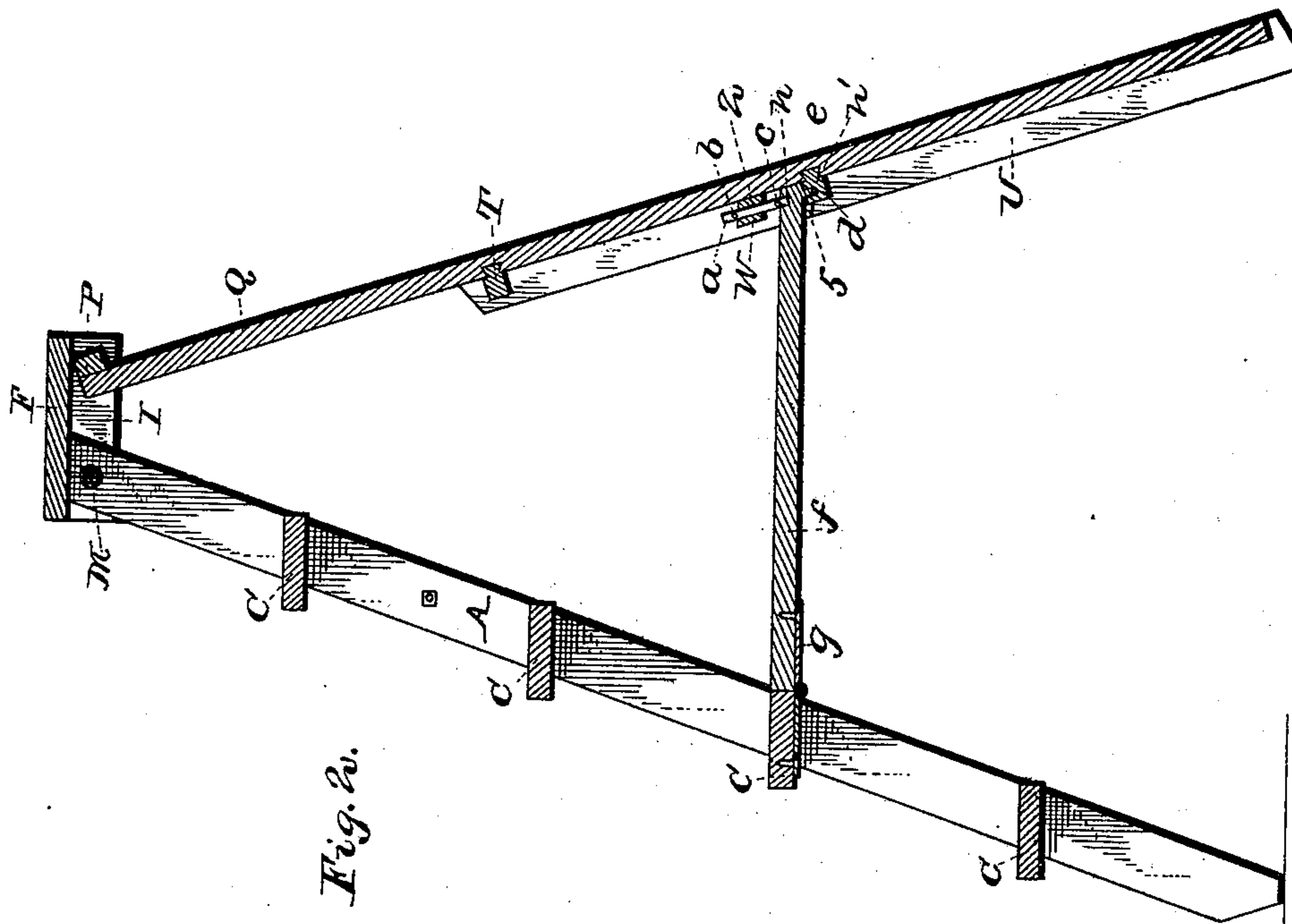
3 Sheets—Sheet 1.

I. B. MAHON.

COMBINED STEP LADDER AND IRONING BOARD.

No. 373,464.

Patented Nov. 22, 1887.



WITNESSES

B. Fugitt.
Phil. Masi.

INVENTOR

Isaac B. Mahon,
by Anderson & Smith
his Attorneys

(No Model.)

3 Sheets—Sheet 2.

I. B. MAHON.

COMBINED STEP LADDER AND IRONING BOARD.

No. 373,464.

Patented Nov. 22, 1887.

Fig. 3.

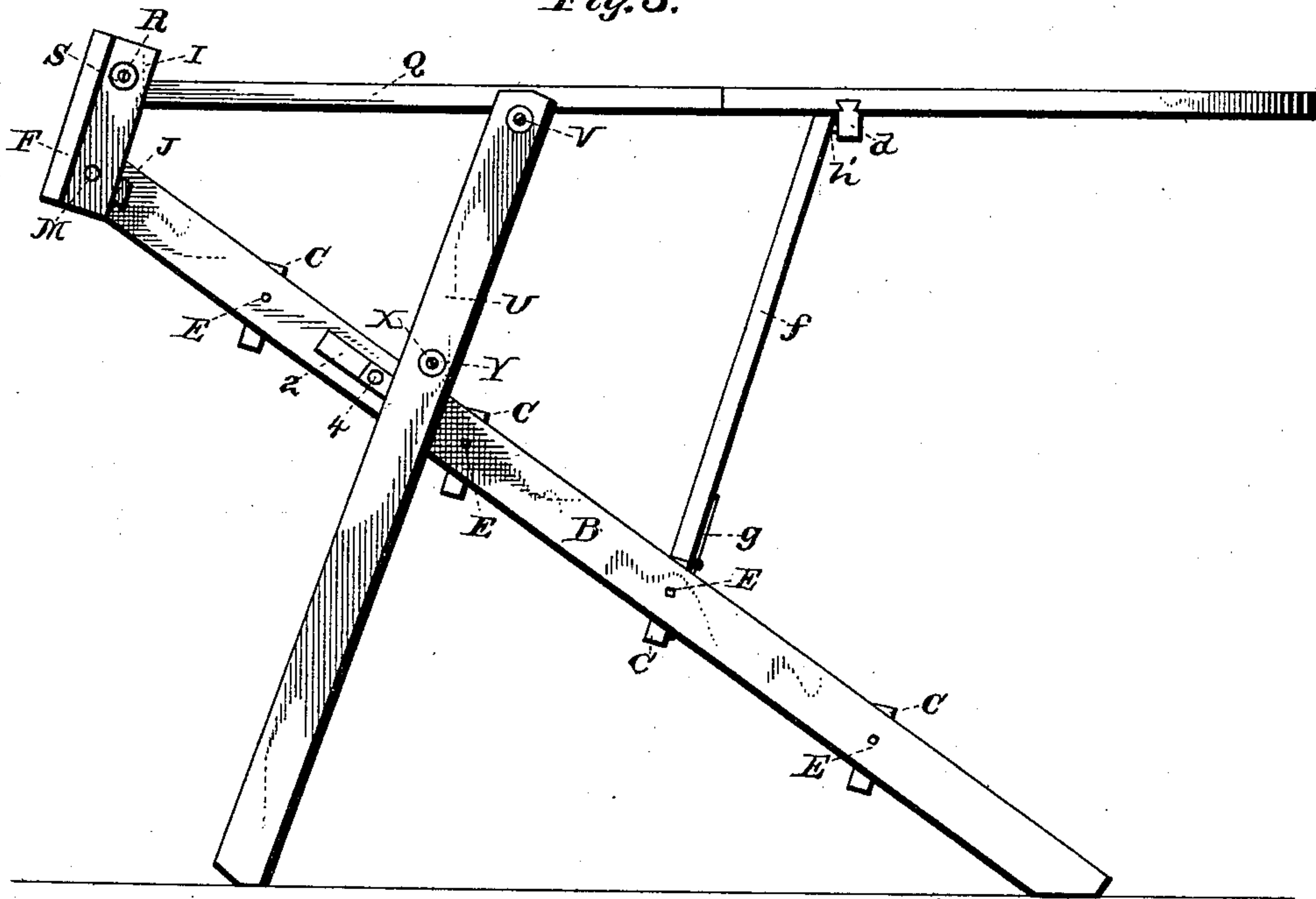
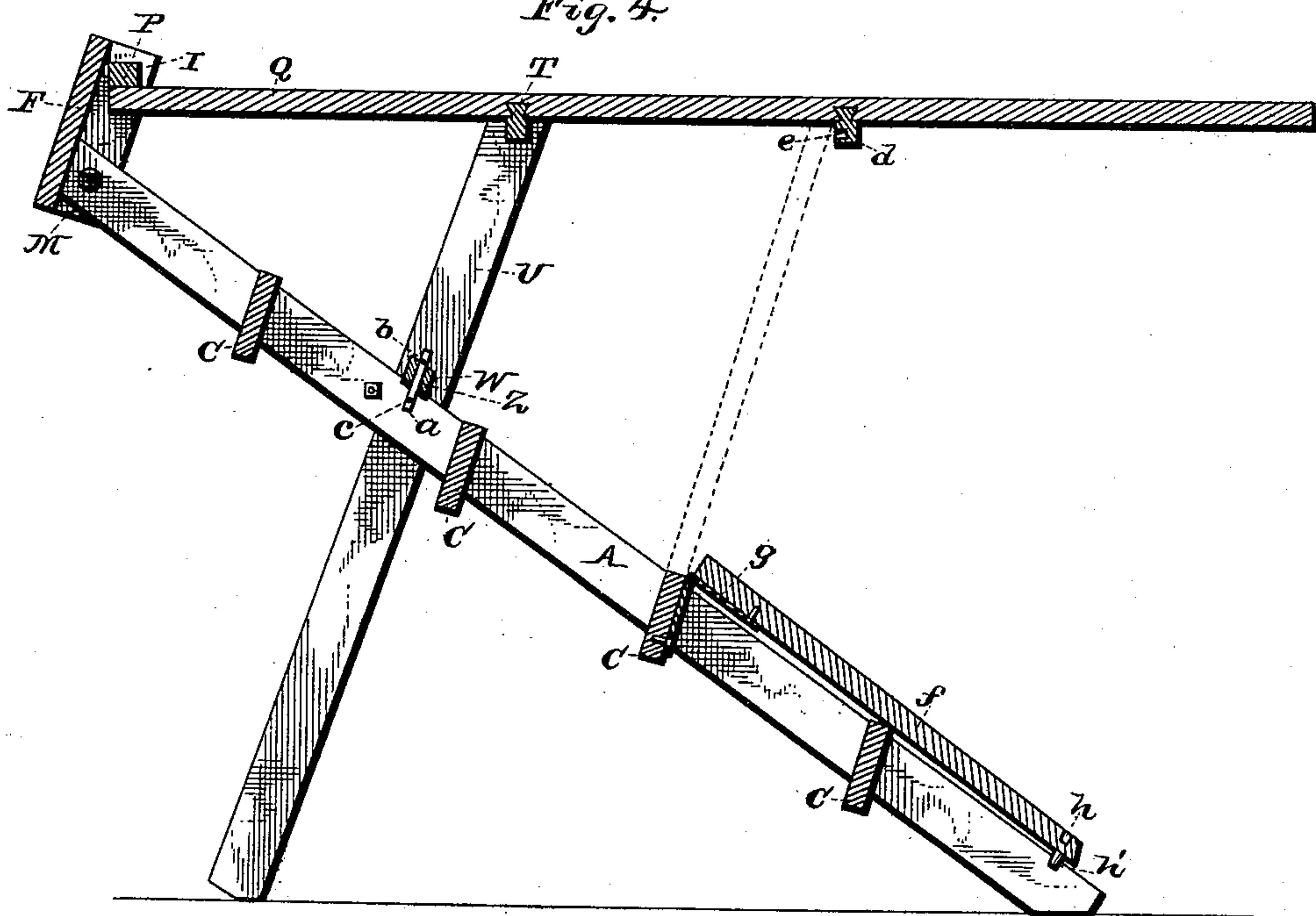


Fig. 4.



WITNESSES

B. Fugitt,
Phil. Masi.

INVENTOR

Isaac B. Mahon,
by Anderson & Smith
his Attorneys

(No Model.)

3 Sheets—Sheet 3.

I. B. MAHON.

COMBINED STEP LADDER AND IRONING BOARD.

No. 373,464.

Patented Nov. 22, 1887.

Fig. 5.

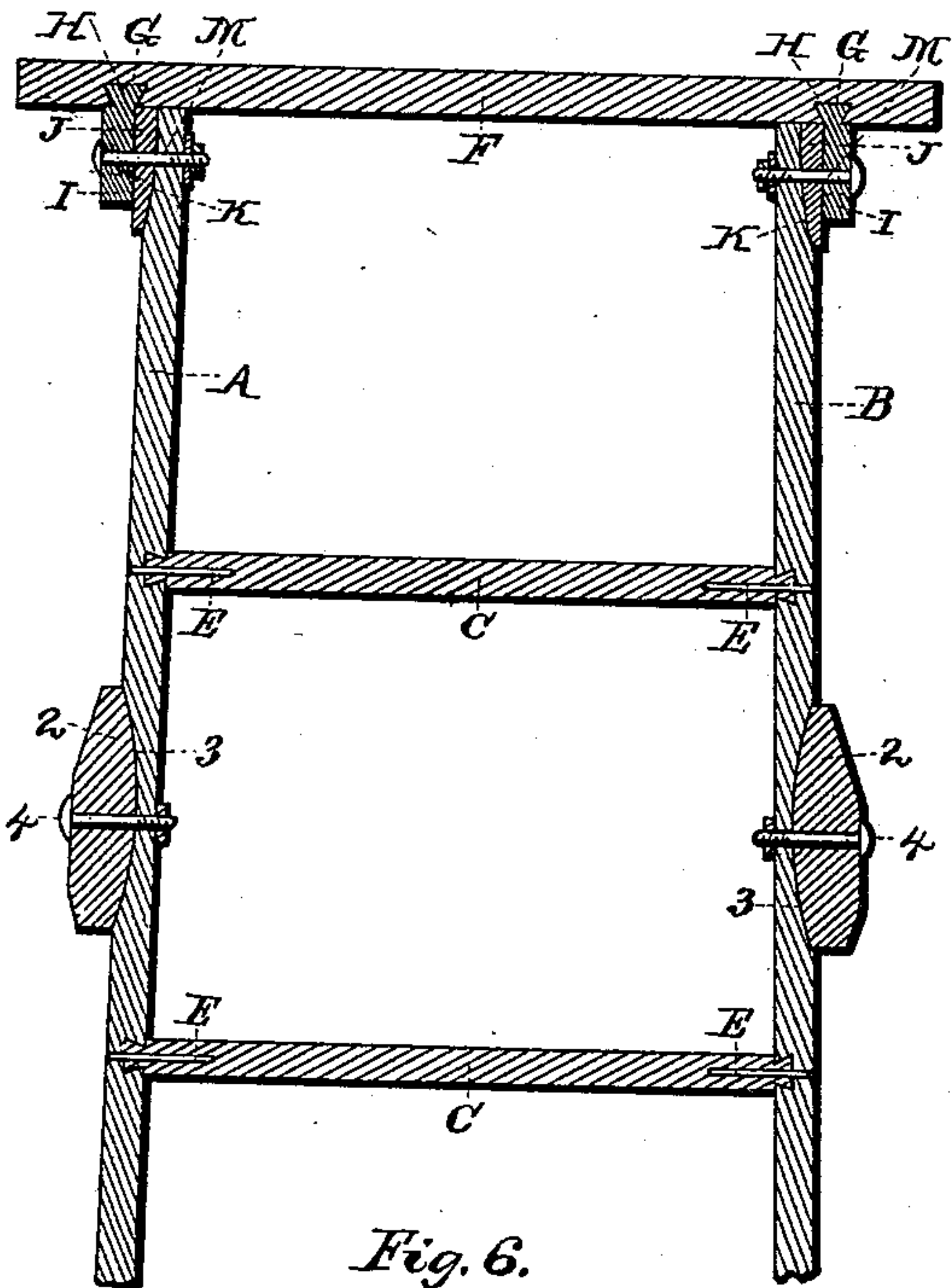
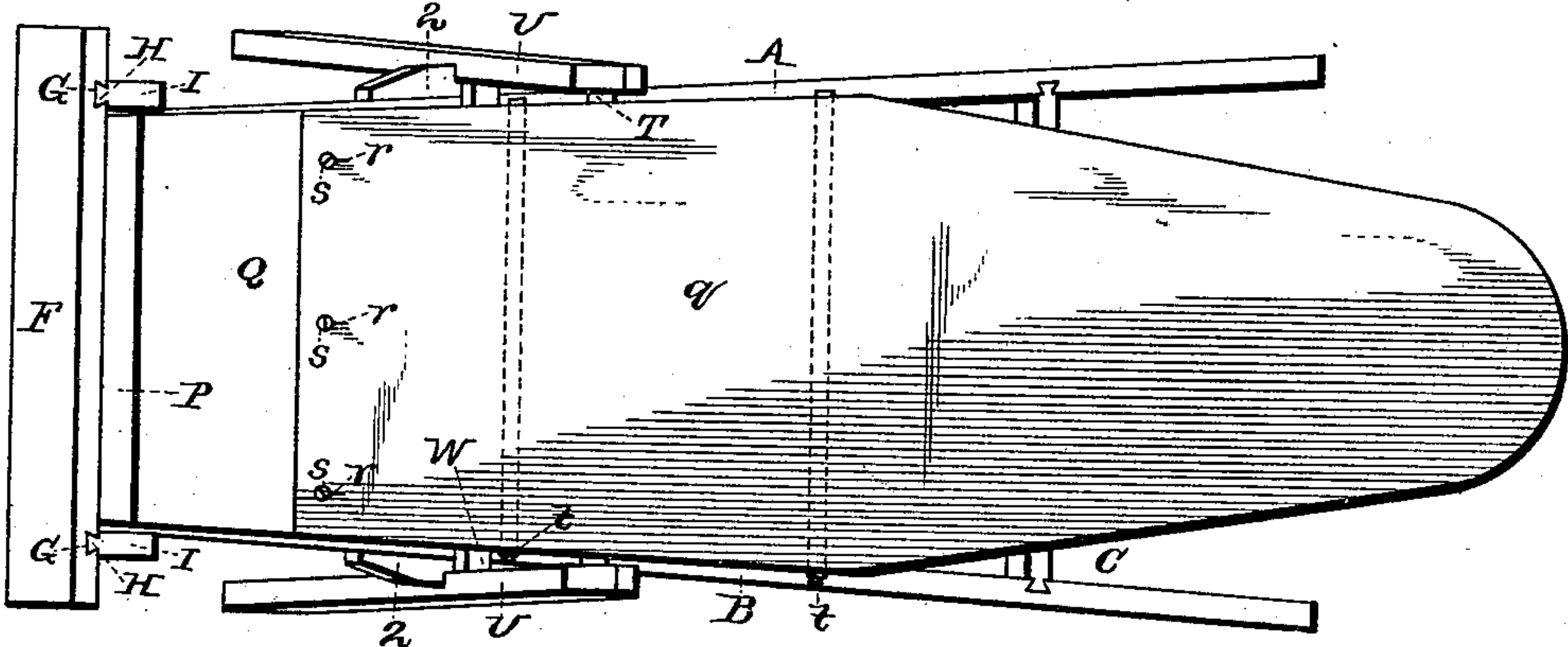


Fig. 6.

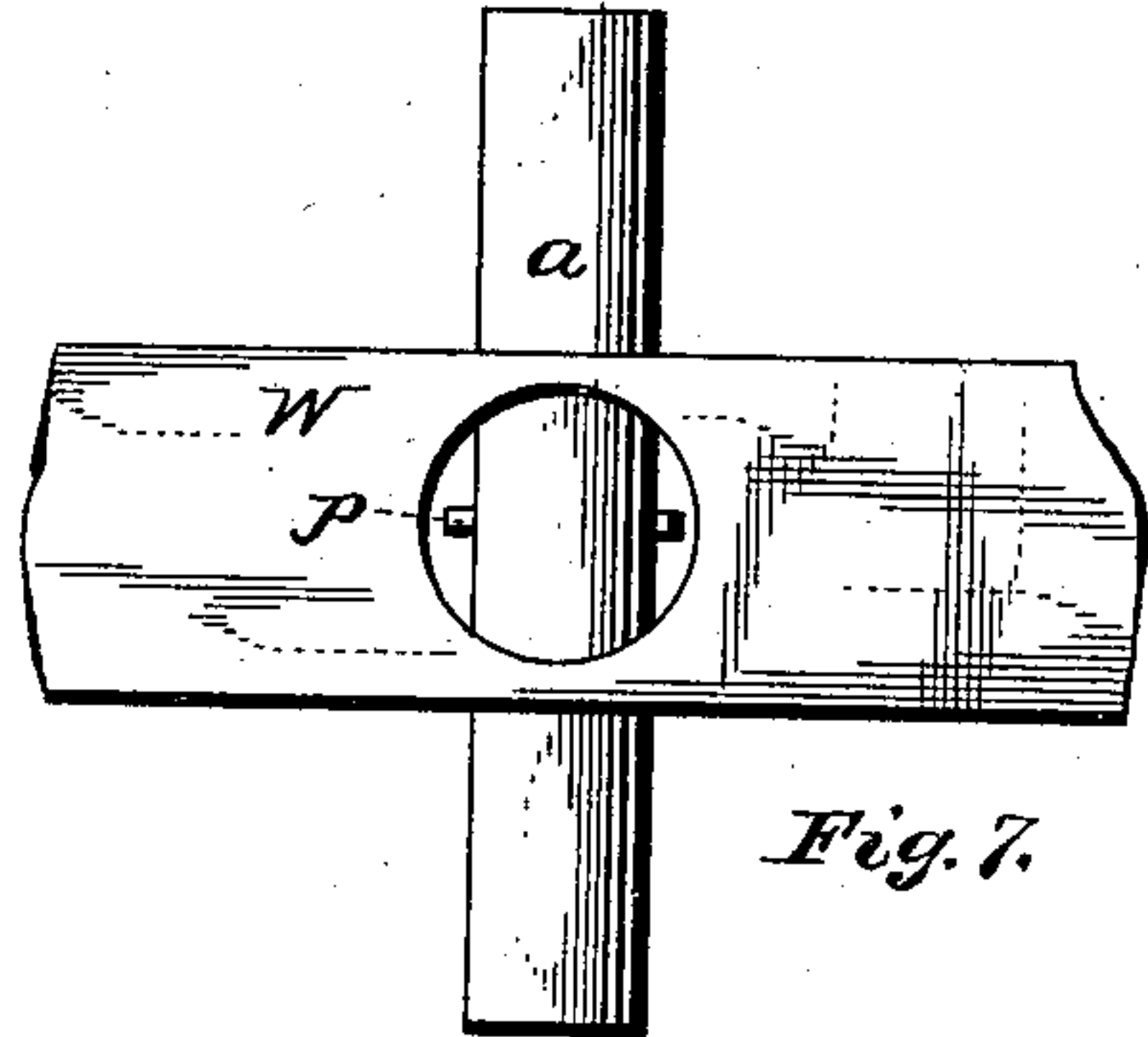


Fig. 7.

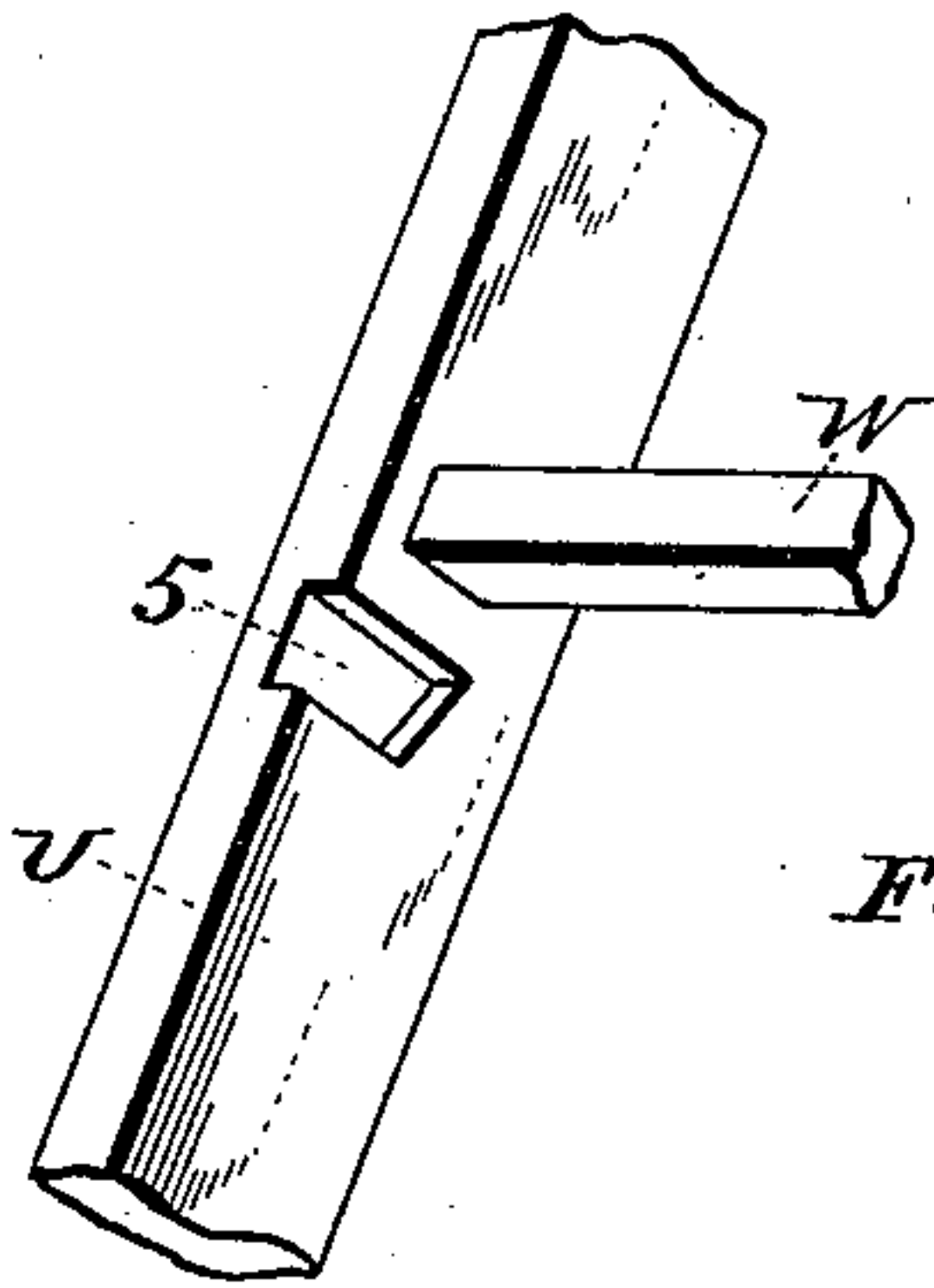


Fig. 8.

WITNESSES

B. Fugitt.
Phillips.

INVENTOR

Isaac B. Mahon.
by Anderson & Smith
Attorneys

UNITED STATES PATENT OFFICE.

ISAAC B. MAHON, OF DUNKIRK, OHIO.

COMBINED STEP-LADDER AND IRONING-BOARD.

SPECIFICATION forming part of Letters Patent No. 373,464, dated November 22, 1887.

Application filed February 12, 1887. Serial No. 227,427. (No model.)

To all whom it may concern:

Be it known that I, ISAAC B. MAHON, a citizen of the United States, and a resident of Dunkirk, in the county of Hardin and State of Ohio, have invented certain new and useful Improvements in a Combined Step-Ladder and Ironing-Board; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a representation of my invention, and is a side view of the same as a step-ladder. Fig. 2 is a vertical sectional view of the step-ladder. Fig. 3 is a side view as an ironing-board. Fig. 4 is a vertical sectional view of the ironing-board. Fig. 5 is a top view with cover. Fig. 6 is a detail sectional view. Fig. 7 is a view of my modification of the locking-pin. Fig. 8 is a detail view.

My invention relates to a combined step-ladder and ironing-board; and it consists in the construction and novel combination of parts, as hereinafter described and claimed.

Referring by letter to the accompanying drawings, A B designate the side rails of the step-ladder, and C designates the steps of the ladder, any desirable or convenient number of the latter being employed. The steps C are first dovetailed into the inner faces of the side rails, A B, and a single nail, E, is then driven from the outer faces of the side rails, A B, through the latter into the ends of the steps C. This applies to all of the steps except the top step, F, which latter is provided with dovetail grooves G in its under face near each end, to receive the dovetail tongues H on the upper edges of the short bars I, which bars are secured to the upper ends of the side rails, A B, on the outer faces of convexo-plano blocks J, let into concave recesses K in the outer faces of the side rails, A B. The outer faces of the blocks J are plain, two bolts, M M, having nuts and washers on their inner ends, being passed through the bars I. Blocks J and the side rails, A B, secure the side rails to the bars I.

Between the short bars I I, and near the rear ends of the latter, the ends of a transverse bar, P, secured to the outer face and upper end of the ironing-board Q, are journaled two screws, R R, passing through washers S, resting against the outer faces of the short bars I, and through the bars I I into the ends of the journals of the transverse bar P, thereby securing the ironing-board in place.

The ironing-board Q is provided on its lower or inner face with a transverse bar or rib, T, which is dovetailed into said lower or inner face and projects slightly at each edge of the board Q, in order that the upper ends of the rear supporting-legs, U U, may be pivoted thereto and held in place by screws V V, passed through washers or wear-plates on the outer faces of said legs U U into the journals of the transverse bar or rib T, thereby forming the pivots or hinges for said rear supporting-legs. The supporting-legs U U are also connected intermediately of their upper and lower ends by a transverse bar, W, which is secured in place by screws X, passed through washers or wear-plates Y and through the supporting-legs U U into the ends of the transverse bar W.

At the middle of its length the transverse bar W is provided with a key-seat, Z, which is made through it, and in this seat a sliding pin or locking-pin, a, is inserted, and said pin is provided both above and below the transverse bar W with cross-pins b c, which latter limit the longitudinal movement of said locking-pin in its seat, and prevent its accidental withdrawal from its seat.

The ironing-board Q is provided on its lower face with a transverse bar, d, which is provided with a keeper or locking-seat, e.

f is a brace or supporting-arm, which is connected at one end to the lower face of one of the steps C of the ladder, preferably the second step from the bottom of the ladder, by a hinge, g. The other end, and what may be properly termed the "rear end," and at times the upper end, of the brace f is provided in its upper face with a key-seat, h, which passes only part way through said brace. In line with this seat h the brace is provided with a depending pointed pin, h', which is adapted to enter the locking-seat e in the transverse bar d. The lower end of the locking-pin a

enters the seat *h* in the upper face of the brace or supporting-arm *f* when the latter is adjusted to place to support the device in either the form of a step-ladder or in the form of an ironing-board. It should be observed in this connection that when the structure is used in the form of an ironing-board it is not essential that the brace or supporting-arm *f* should be turned up to place, and in some instances, where long garments are being ironed, said brace is preferably let down out of the way, the ironing-board being sufficiently well braced and supported to stand any strain that may be brought to bear upon it without using said brace.

As a modification of the locking-pin, as above described, I may, and sometimes do, bore a hole at right angles to the key-seat *Z*, and instead of employing two cross-pins *b c*, I employ a single cross-pin, *p*, at the middle of the locking-pin.

The side rails, *A B*, of the step-ladder are provided with stop-blocks or locking-blocks *2 2*, the inner faces of which are let into concave recesses *3 3* in the outer faces of said side rails, *A B*, bolts *4 4* being employed to secure said stop-blocks or locking-blocks *2 2* in place. The inner edges of the stop-blocks *2 2* are made convex to fit the concave recesses *3 3* in the side rails, *A B*, and the lower ends of said blocks *2 2* are beveled downwardly and rearwardly at their front edges.

The supporting-legs *U U* are provided on their inner faces with recesses *5 5*, which extend part way across said legs, and when said legs *U U* are turned up to convert the structure into an ironing-board said recesses *5 5* engage the lower ends of the stop-block *2 2* and lock the supporting-legs *U U* in place.

The ironing-board will be suitably covered for use. The upper end of the covering *q* is provided with button-holes *r*, which, when the covering is in place, engage the heads of screws *s*, secured in the upper or outer face

of the ironing-board. The side edges of the covering *q* are provided with buttons *t*, which are engaged by tapes or cords passed across under the ironing-board. When the covering is to be removed, the upper end is unbuttoned and the tapes or cords underneath unbuttoned and the cover rolled from the top downward and slipped off at the foot of the ironing-board and laid away for future use.

Assuming the device to be set up or in use as a step-ladder, to change it from this condition into the form necessary for use as an ironing-board it is simply necessary to tip or tilt the structure forward on the feet of the ladder, the operator standing in rear of the ironing-board. By then reaching forward and lifting the locking-pin, and then pulling slightly back upon the ironing-board, the hinged brace will fall into a vertical position, and the ironing-board may then be closed upon or against the step-ladder, so that the device will occupy but little space in storing it, and in this shape may be conveniently transported from place to place.

Having described this invention, what I claim, and desire to secure by Letters Patent, is—

The combination, with a step-ladder provided with the short bars and top step at its upper end, and the hinged brace provided with a pointed pin and a locking-seat at its free end, of an ironing-board hinged at its upper end between said short bars, and provided on its under face with a transverse bar having a locking-seat between its ends, and the hinged rear legs provided with a transverse bar having a locking-pin working in a seat in said bar, substantially as specified.

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

ISAAC B. MAHON.

Witnesses:

THEO. MUNGEN,
PHILIP C. MASI.