

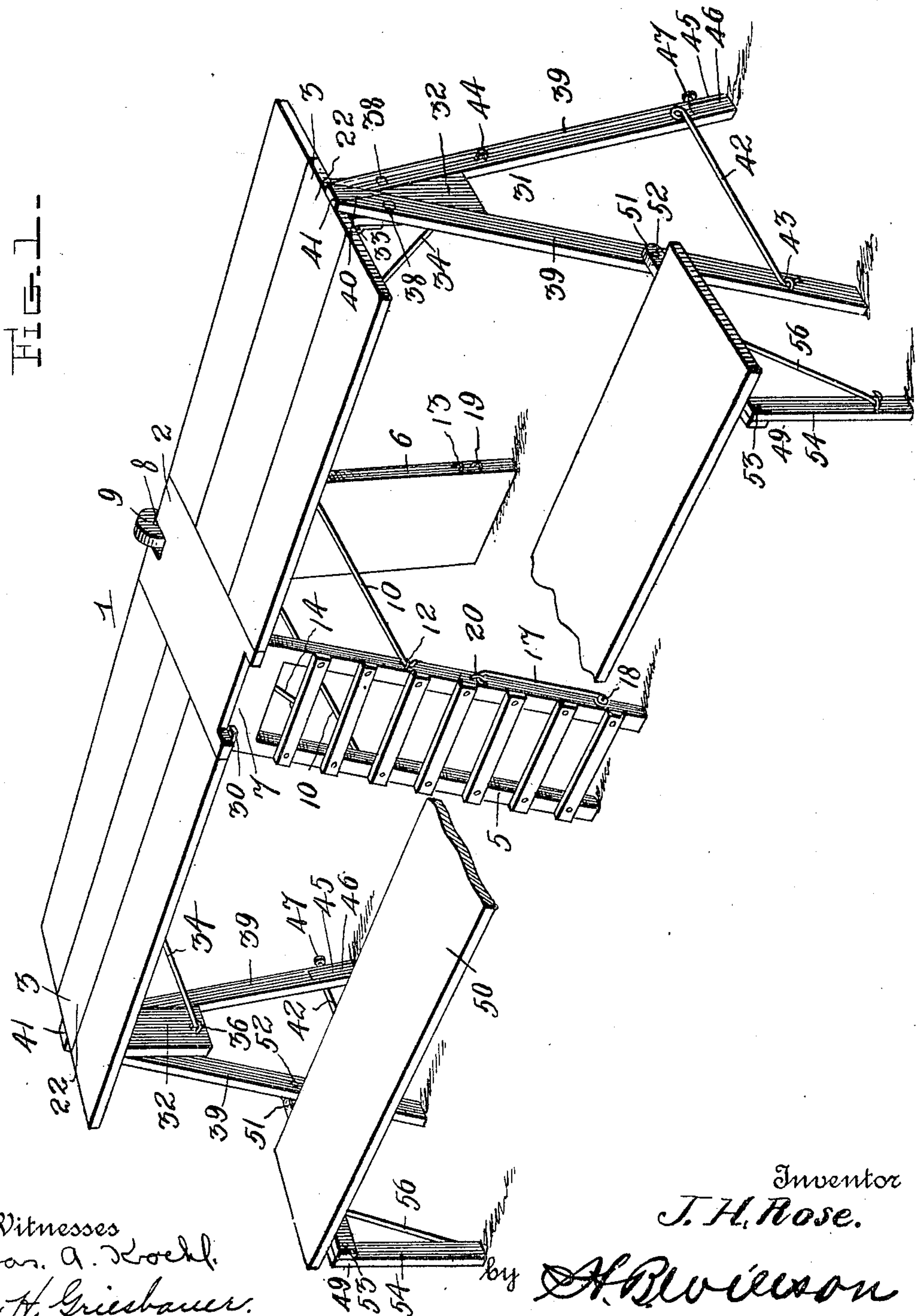
No. 812,091.

PATENTED FEB. 6, 1906.

J. H. ROSE.
COMBINED SCAFFOLD AND STEP LADDER.

APPLICATION FILED MAY 6, 1905.

3 SHEETS—SHEET 1.



Witnesses
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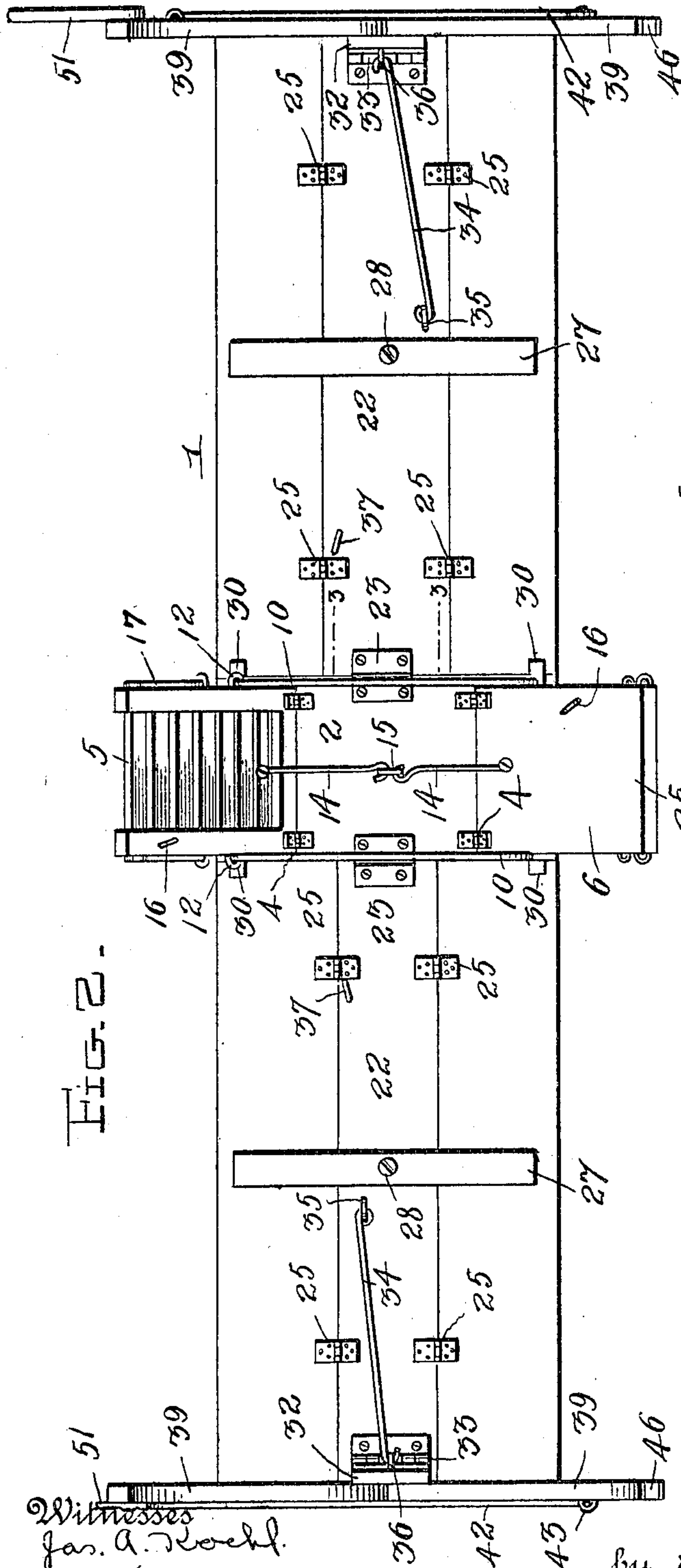


FIG. 2 -

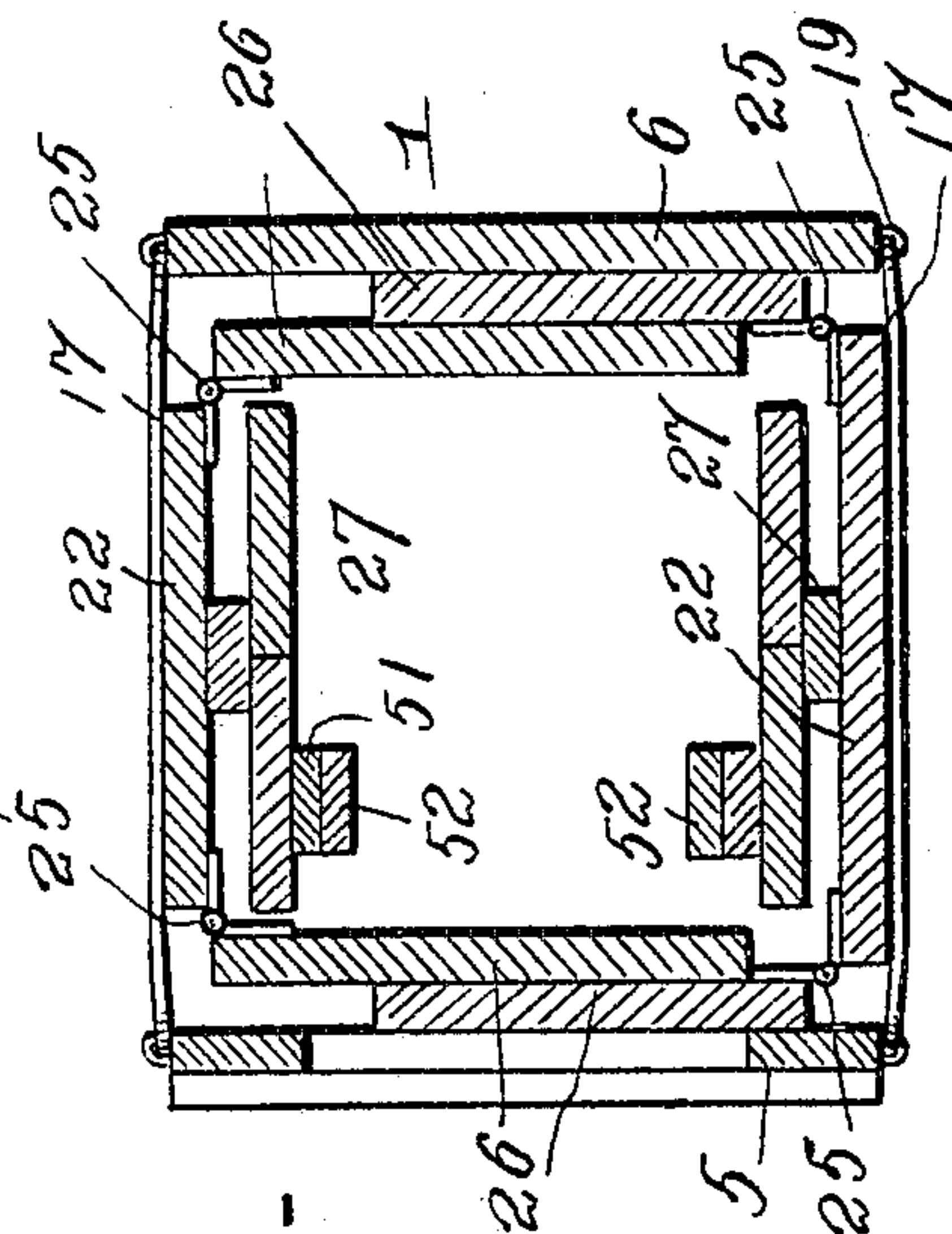


FIG. 5 -

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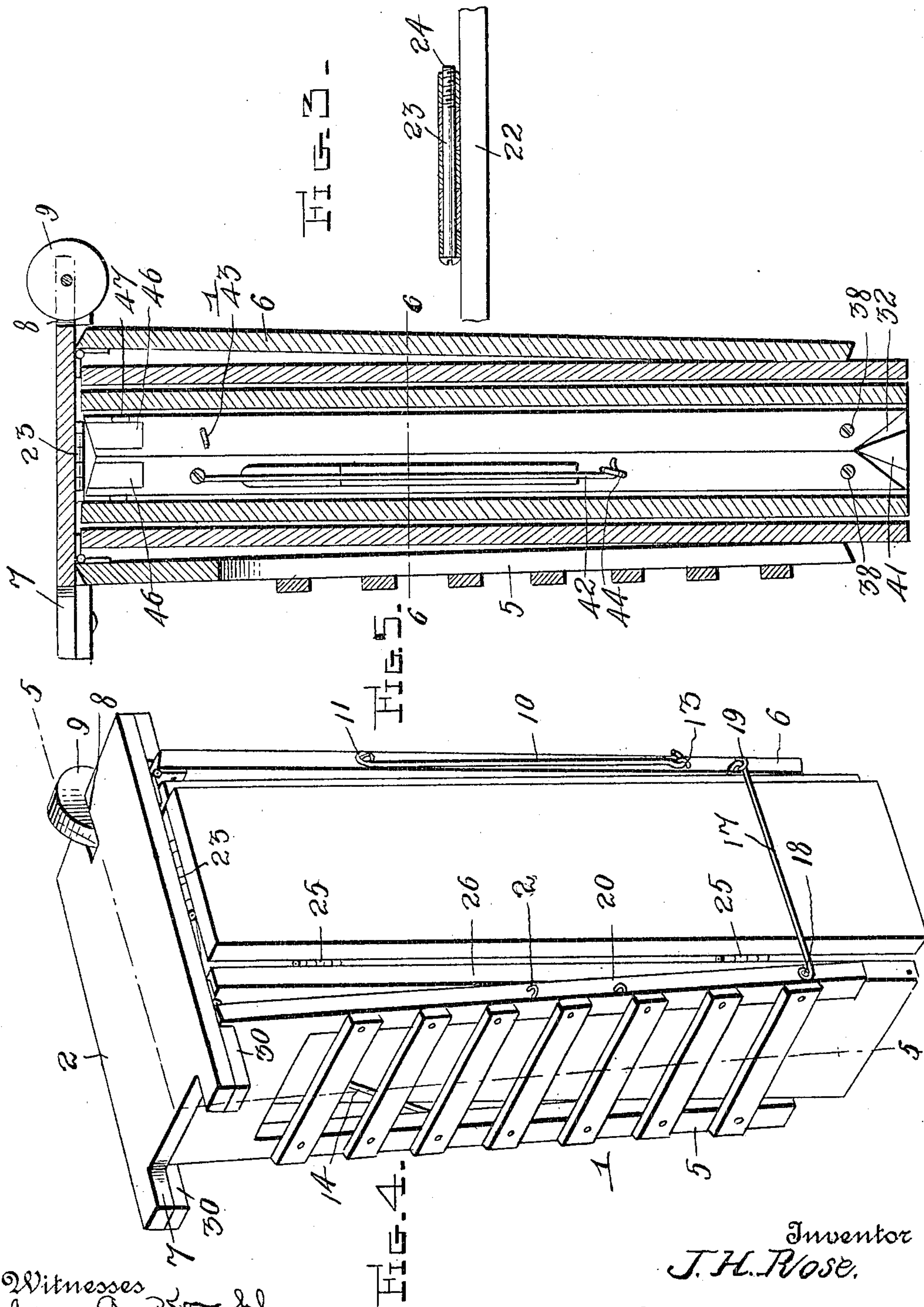
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3 SHEETS—SHEET 3.



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UNITED STATES PATENT OFFICE.

JOHN HENRY ROSE, OF SHREVEPORT, LOUISIANA.

COMBINED SCAFFOLD AND STEP-LADDER.

No. 812,091.

Specification of Letters Patent.

Patented Feb. 6, 1906.

Application filed May 5, 1905. Serial No. 258,940.

To all whom it may concern:

Be it known that I, JOHN HENRY ROSE, a citizen of the United States, residing at Shreveport, in the parish of Caddo and State of Louisiana, have invented certain new and useful Improvements in a Combined Scaffold and Step-Ladder; 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.

My invention relates to improvements in combination folding scaffolds and step-ladders; and it consists in certain novel features of construction, combination, and arrangement of parts hereinafter described and claimed.

The object of the invention is to improve and simplify the construction of devices of this character, and thereby render the same more durable and convenient in use and less expensive to manufacture.

The above and other objects, which will appear as the nature of my invention is better understood, are accomplished by means of the construction illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of my improved combination scaffold and ladder, showing the same in its opened position. Fig. 2 is a bottom plan view of the same. Fig. 3 is a vertical transverse sectional view taken on the line 3 3 in Fig. 2. Fig. 4 is a perspective view of the device in its folded position. Fig. 5 is a vertical sectional view taken on the line 5 5 in Fig. 4, and Fig. 6 is a horizontal sectional view taken on the line 6 6 in Fig. 5.

Referring to the drawings by numeral, 1 denotes my improved combination folding scaffold and ladder, which comprises a main platform-section 2 and two folding side platform-sections 3. The main section 2 has hinged adjacent to its front and rear ends upon its under side, as shown at 4, supporting-legs 5 and 6, the latter of which is in the form of a broad board and the former of which is in the form of a step-ladder. The front end of the main platform-section 2 directly in front of the hinged upper end of the ladder or leg 5 is recessed, as shown at 7, to facilitate a person climbing the ladder to get upon the top of the platform. At the rear end of said main platform-section 2 is a recess 8, in which is journaled a wheel or roller 9, the purpose of which will be hereinafter

explained. The supporting-legs 5 and 6 are adapted to be braced apart and held in their open position when the device is in use by connecting-rods 10, which are in the form of hooks pivoted at 11 to the legs 6 and engaged with eyes 12 upon the legs 5. When the device is in its folded position, these hook-rods 10 are adapted to be engaged with staples or eyes 13 upon the legs 6. The legs 5 and 6 are further braced in this position, as clearly shown in Figs. 1 and 2 of the drawings, by hook-rods 14, which have their lower ends pivotally connected to the legs 5 and 6 and their upper ends adapted to engage an eye or staple 15, provided centrally upon the bottom of the main platform-section 2. When the device is in its folded position, the hooks on these rods 14 are engaged with eyes or staples 16, provided upon the inner sides of the legs 5 and 6. When the device is in its folded position, as shown in Figs. 4, 5, and 6 of the drawings, the legs are adapted to be secured together, with the folding side sections 3 between them, by hook-rods 17, which are pivoted at 18 to the leg or ladder 5 and adapted to engage staples or eyes 19 upon the legs 6. When the device is in its open position, these hook-rods 17 have their hooked ends engaged with staples or eyes 20 upon the leg or ladder 5.

The folding or collapsible side platform-sections 3 are identical in construction, and the description of one will suffice for both. Each of them consists of a central board or section 22, which has its inner end detachably hinged, as shown at 23, to one side of the main platform-section 2. This hinged connection is clearly shown in Fig. 3 of the drawings, the pintle of the hinge being removable by having its end screw-threaded, as shown at 24, so that one or both of the side platform-sections may be removed to permit only one of said sections to be used in connection with the main ladder-section or to permit the ladder to be used by itself, as will be readily understood. To the sides of the central board of the side platform-sections are hinged boards 26, which when in their open position (shown in Figs. 1 and 2 of the drawings) form a portion of the platform of the scaffold. When these leaves 26 are in this position, they are adapted to be supported by a long centrally-disposed turn-button 27, which is pivoted, as at 28, upon the under side of the center board 22 and adapted to be swung transversely to engage and support said

leaves, as shown in Fig. 2 of the drawings. When the device is to be folded, this turn-button is swung longitudinally beneath the center board 22, so that the leaves 26 may be swung downwardly. The leaves are further supported in their open position by turn-buttons 30, which are pivoted upon the under side of each end of the main platform-section 2, so as to engage the inner ends of the leaves, as shown in Fig. 2.

The outer ends of the side platform-sections 3 are supported in their open position by folding leg-sections 31, each of which consists of a block 32, hinged at one of its ends, as at 33, to the under side of one end of the center board 22 and adapted to be held in its open position at right angles to said board 22 by a hook-rod 34, which is pivotally connected at 35 and adapted to engage an eye or staple 36 upon said block 32. When the block 32 is folded inwardly upon the under side of the board 22, the hook-rod 34 is engaged with a staple or eye 37, provided upon the under side of the inner end of the board 22. Upon the outer face of the block 31 are pivoted, as at 38, a pair of supporting-legs 39. These legs have their upper ends beveled, as shown at 40, and adapted to engage the opposite faces of a wedge-shaped block 41, provided at the top of the block 32 for the purpose of limiting the outward or opening movement of said legs. The legs 39 are further held in their open position by a hook-rod 42, which is pivotally connected to one of the legs and adapted to engage a staple or eye 43 upon the other. This hook-rod 42 may be engaged with an eye 44 upon one of said legs when the latter are in their folded position. If desired, the legs 39 upon either the front or back or upon both front and back of the device may be made adjustable, as shown at 45, to permit the device to be set squarely upon uneven surfaces or against walls which have a broad weather-boarding at their bottoms. This adjusting device consists in forming the lower end of the leg 39 with a recessed portion in which is slidably mounted an extensible section 46. This section may be held at any desired adjustment by means of set-screws 47 or by any other suitable fastening means.

When the device is used by paper-hangers, who require a low table upon which to work, I may provide upon the legs 39 at one side of the device a folding frame 49, upon which a board or table-section 50 may be removably supported. As clearly shown in the drawings, these folding frame-sections 49 each consist of a horizontal member 51, pivoted at one of its ends, as at 52, upon one of the legs 39, and its other end is pivoted, as at 53, to the upper end of a vertical member 54, which forms a supporting-leg. This leg or member 54 is adapted to be braced by a hook-rod 56, similar to those previously described. The

board or table-top 50 may be supported upon the members 51 of the frames 49, so that it can be easily removed when the members 51 and 54 are folded upon each other and then upon the leg 39 in folding the device to its closed position. (Shown in Fig. 4 of the drawings.)

The construction, operation, and advantages of the invention will be readily understood from the foregoing description, taken in connection with the accompanying drawings. It will be seen that the device may be quickly set up, so that the central or main section may be used simply as a ladder or used in connection with one or both of the side sections as a scaffold. When not in use, the device may be compactly folded, as shown in Fig. 4, so that it may be readily shipped or stored away in a comparatively small space. When in the folded position shown in Fig. 4 of the drawings it may be readily transported from place to place by rolling it upon the wheel or roller 9 similar to the manner in which one would push a wheelbarrow. In folding or collapsing the device the legs 39 are first folded together and then inwardly upon the under side of the center board 22. The leaves 26 are then folded downwardly upon each side of the legs 39, and the side platform-sections 3 are then folded inwardly between the legs 5 and 6. It will be noticed that the center boards 22 upon each side are unequal in width, so that the leaves 26 of the two side sections may cross or overlap each other when the device is folded. When in the latter position, the parts are held together by the hook-rods, as previously explained.

While I have shown and described the preferred embodiment of my invention, it will be understood that I do not wish to be limited to the precise construction herein set forth, since various changes in the form, proportion, and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention.

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

1. A device of the character described, comprising a main platform-section, supporting-legs hingedly connected at the front and rear ends of the same, side platform-sections hingedly connected to the sides of said main platform-section and adapted to fold between said supporting-legs, and foldable legs upon said side platform-sections.

2. A device of the character described comprising a main platform-section having supporting-legs, one being in the form of a step-ladder, means for bracing said legs apart, a collapsible side platform-section adapted to be folded between said supporting-legs, and means for retaining said side platform-section between said legs.

3. A device of the character described comprising a main platform-section, hinged supporting-legs upon the same, one being in the form of a step-ladder, means for bracing
 5 said legs apart, a side platform-section hinged to said main section, foldable supporting-legs for said side section, folding leaves upon said side section, means for supporting said leaves in their open position,
 10 and means for retaining said side platform-section in its folded position between said supporting-legs.

4. A device of the character described comprising a main platform-section, supporting-legs hinged thereto, one being in the form
 15 of a step-ladder, hook-rods for bracing said legs apart, a side platform-section consisting of a center board hinged at one of its ends to said main section, hinged leaves upon said
 20 center board, turn-buttons for supporting said leaves in their open position, a block hinged upon the outer end of said center board, a brace-rod for holding said block in its open position, folding legs pivotally
 25 mounted upon said block, and a brace-rod for connecting the latter-mentioned legs.

5. A device of the character described comprising a main platform-section having a recessed portion at one of its ends and a
 30 wheel or roller journaled at its other end, supporting-legs hinged upon the under side of

said main section, the leg adjacent to said recess being in the form of a step-ladder, a hook-rod for bracing said legs apart, side
 platform-sections each consisting of a center
 35 board hinged at its inner end upon one side of said main section, leaves hinged upon the sides of said center boards, turn-buttons for supporting said leaves in their open position,
 40 a hinged block at the other end of each of the center boards, detachable brace-rods engaged with said block, legs pivoted upon said blocks, a hook-rod for bracing said legs apart,
 means for adjusting one or more of said legs,
 45 and means for retaining said side platform-sections in their folded positions between the first-mentioned supporting-legs.

6. The combination with the supporting-legs of a scaffold, of folding frames pivotally connected thereto and each consisting of a
 50 horizontal member, a pivoted vertical member or leg and a detachable brace-rod, and a table-top removably mounted upon the horizontal members of said frame.

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

JOHN HENRY ROSE.

Witnesses:

W. W. CAMPBELL,
 J. A. MOLLEY.