

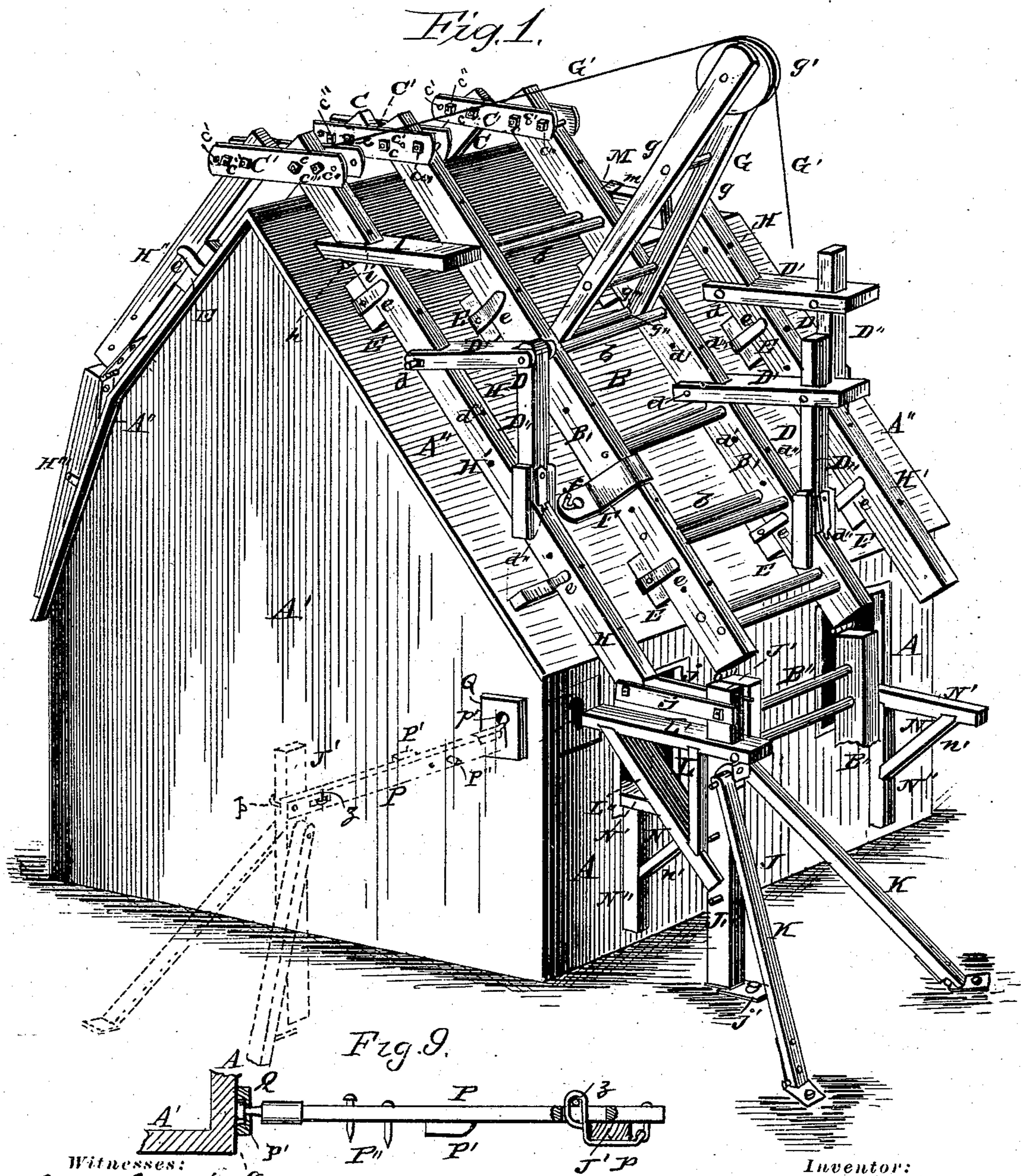
(No Model.)

3 Sheets—Sheet 1.

A. W. SILVIUS.  
Scaffold.

No. 232,556.

Patented Sept. 21, 1880.



Witnesses:  
Fred. G. Dietrich  
P. Dietrich

Inventor:  
Abraham W. Silvius  
by his Atty.  
W. B. Richards

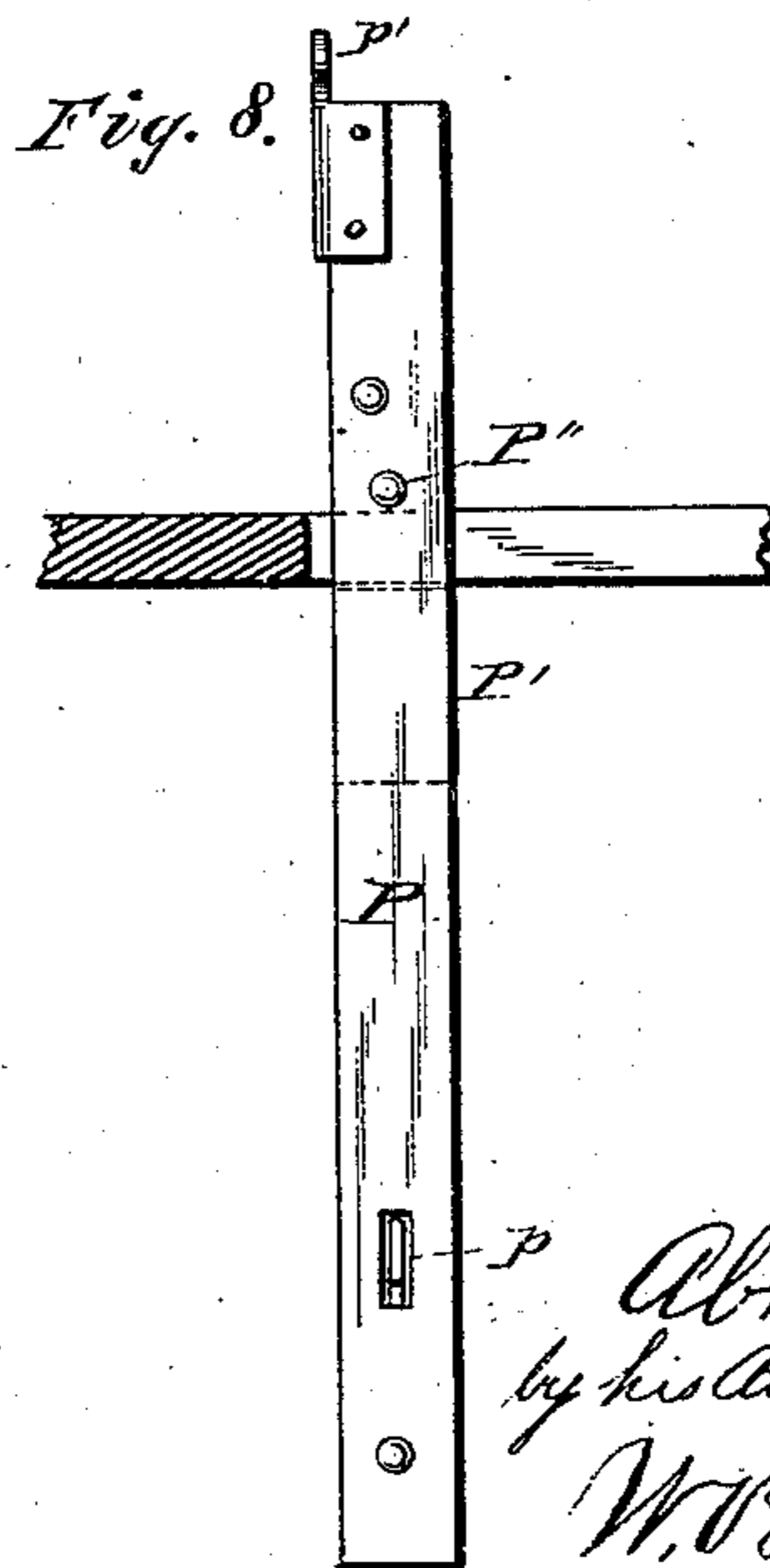
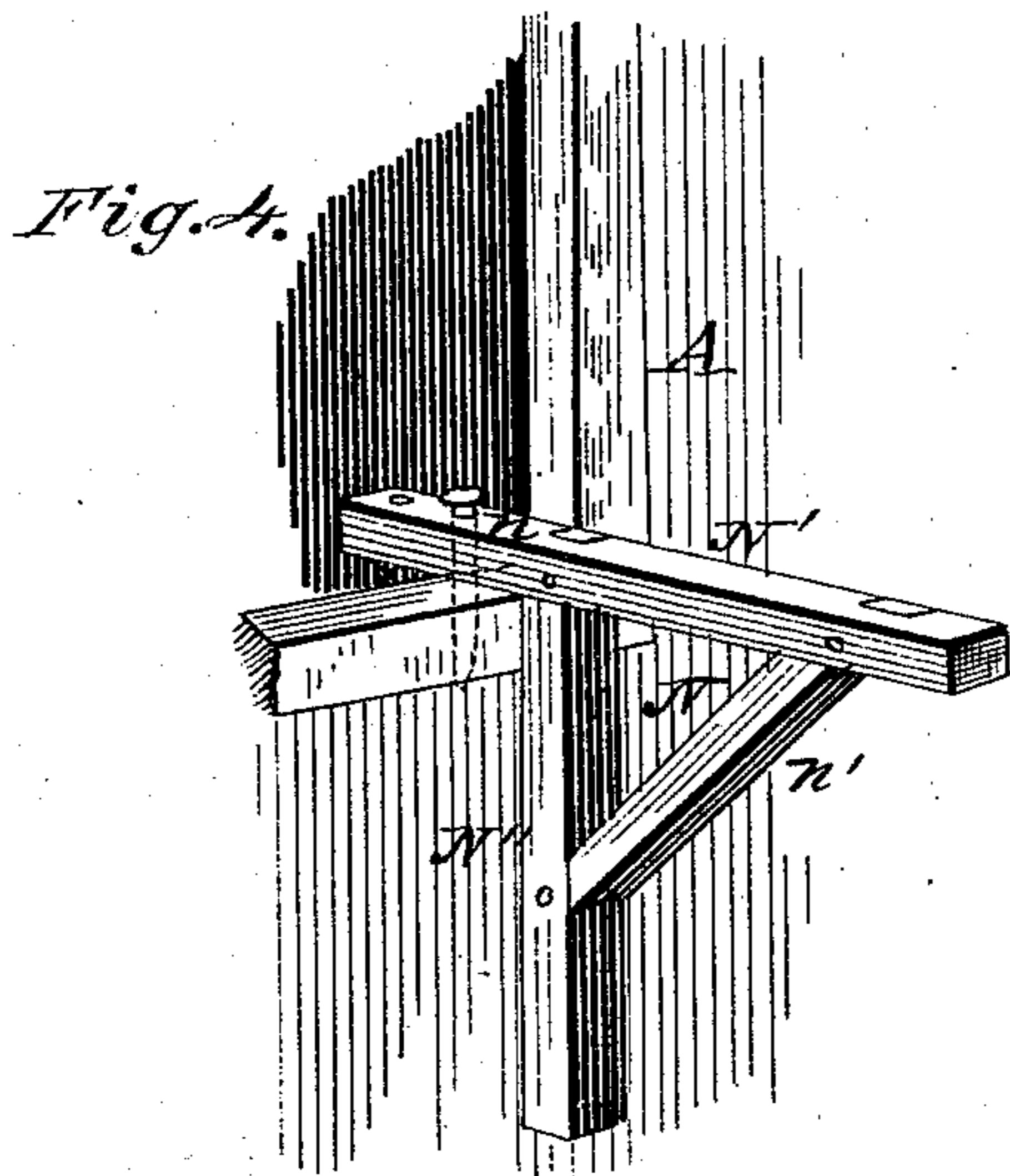
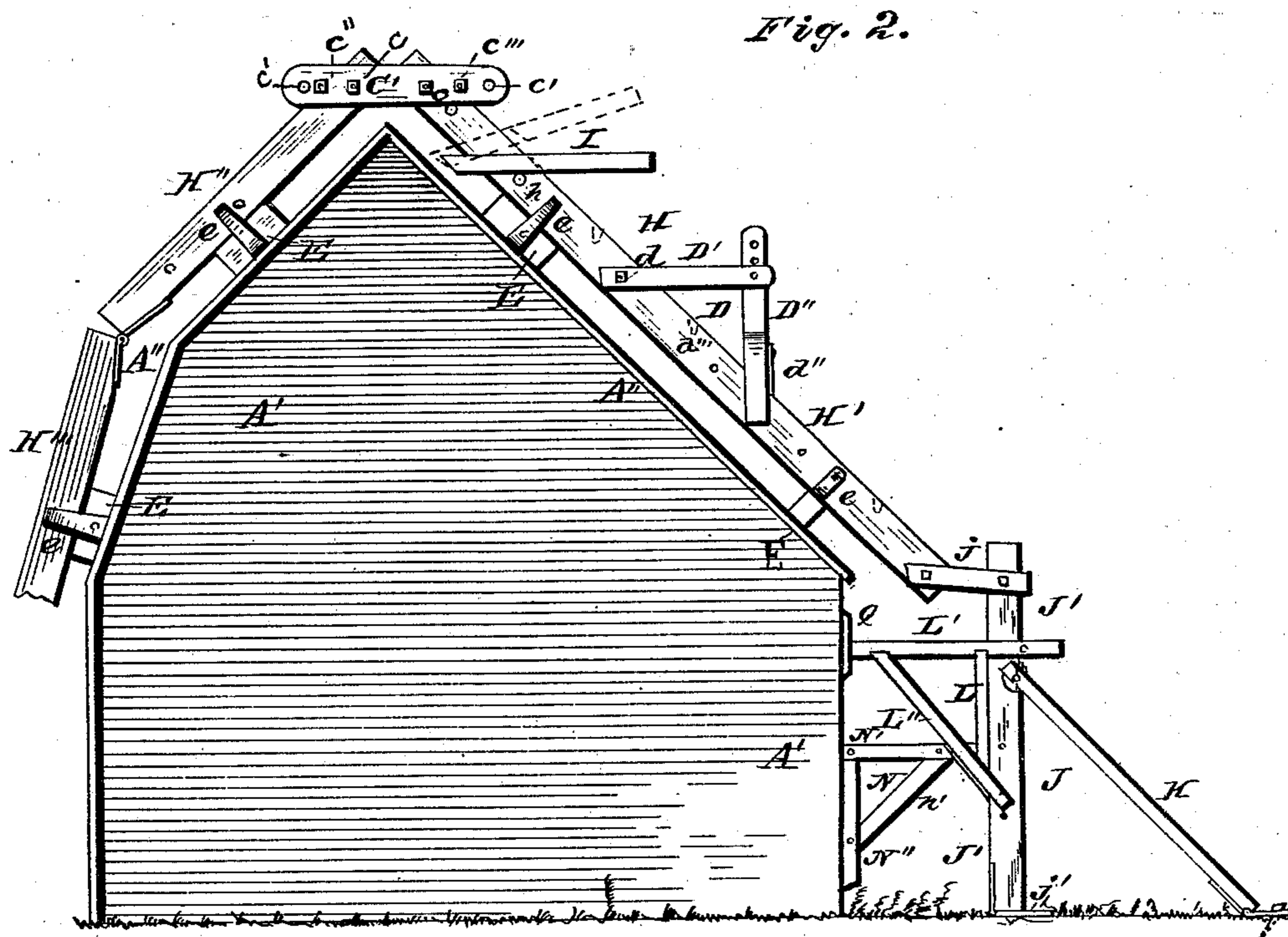
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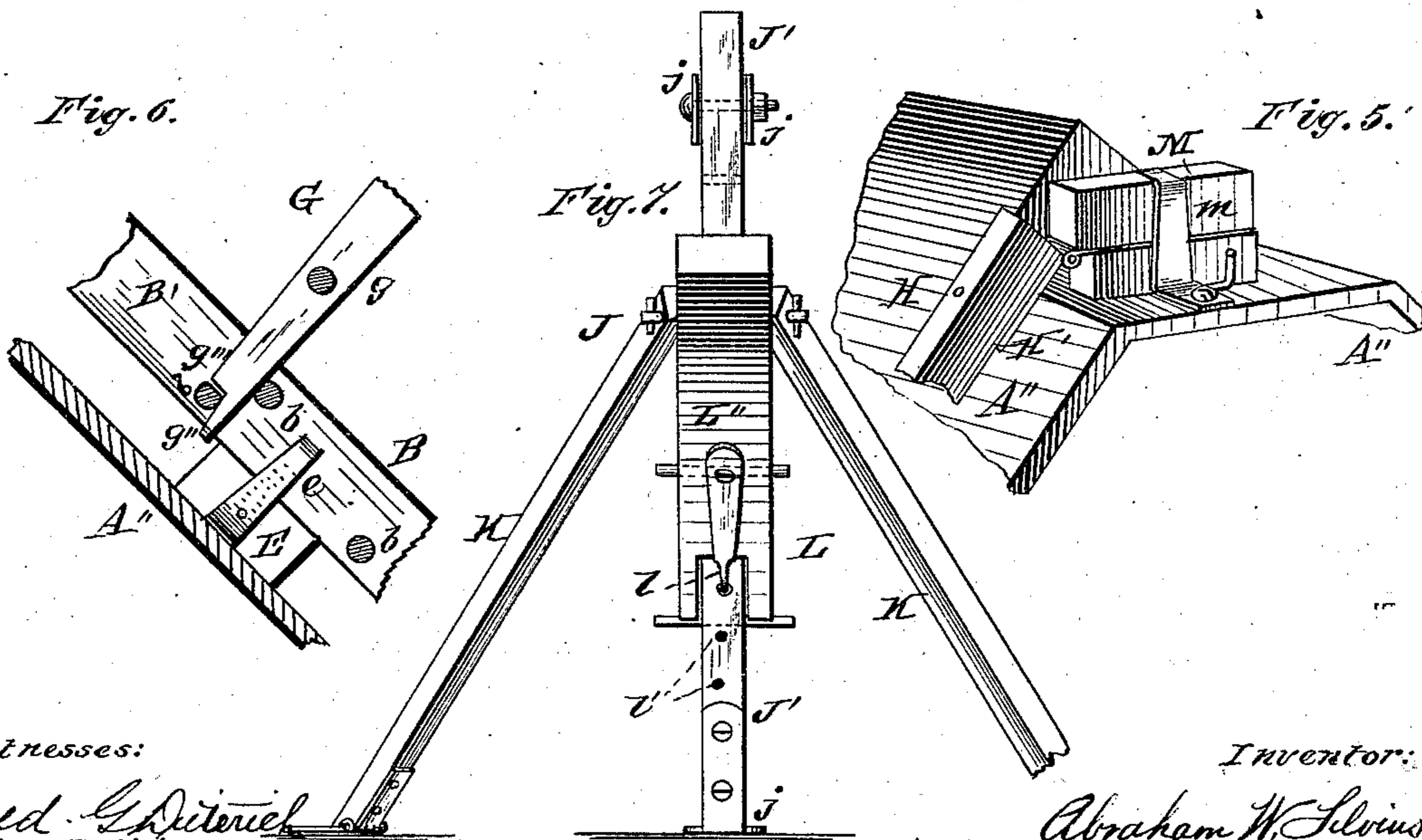
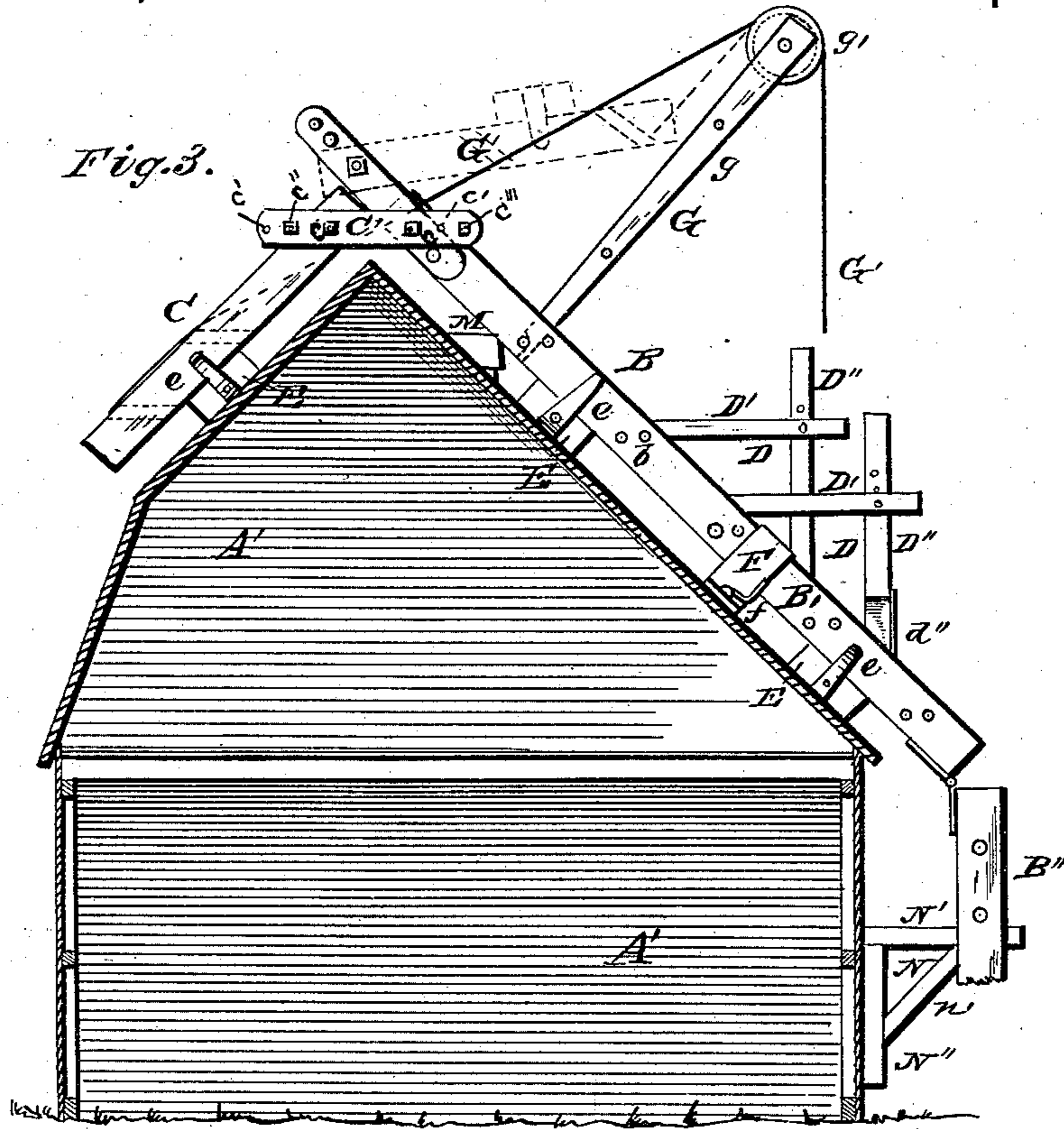
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# UNITED STATES PATENT OFFICE.

ABRAHAM W. SILVIUS, OF GALESBURG, ILLINOIS.

## SCAFFOLD.

SPECIFICATION forming part of Letters Patent No. 232,556, dated September 21, 1880.

Application filed May 3, 1880. (No model.)

*To all whom it may concern:*

Be it known that I, ABRAHAM W. SILVIUS, a citizen of the United States, residing at Galesburg, in the county of Knox and State of Illinois, have invented certain new and useful Improvements in Scaffolds for Builders and Painters; and I do hereby 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, in which—

Figure 1 is a perspective, showing one side, end, and roof of a house with my scaffold in place. Fig. 2 is a side elevation of the house and one of the side scaffolds. Fig. 3 is a vertical section of the house and side elevation of the step-scaffold. Fig. 4 is a detail view, showing the attachment of bracket platform-support to the window. Fig. 5 is a detail view, hereinafter referred to. Fig. 6 is a section in the ladder B' and side elevation of the lower end of the derrick. Fig. 7 is an elevation of the side standard, J, and support L. Figs. 8 and 9 are detail views.

My invention relates to improvements in scaffolds for builders' and painters' use; and it consists in constructions and combinations hereinafter described, and set forth in the claims hereto annexed.

Referring to the drawings by letters, the same letter indicating the same part in the different figures, letter A represents the side, A' the end, and A'' the roof, of a house. B is the central or step scaffold, formed of an ordinary roof-ladder, B', on one side of the roof, and an ordinary ladder, B'', hinged to its lower end. C is a short ladder, hinged to the upper end of the ladder B' by plates C' and hinge-bolts c.

The plates C' have series of holes c' at each end, through which bolts c'' c''' pass, over the upper sides of the ladders C B', to lock them at different angles, so as to fit over roofs of different pitch, in order that the ladder C may hold the ladder B' from slipping downward on the roof.

D is a platform-support, its horizontal bar D' hinged at any desired elevation on the lad-

der B' by a bolt, d, which passes through it and any one of a series of holes, d', in the ladder, and is supported by a standard, D'', hinged at its upper end to the bar D', or adjustably secured therein, so that it may be adjusted on roofs of different pitch to hold the bar D' in a horizontal position, and its lower end forked and astride a side rail of the ladder, and held by a projecting pin, d'', which is inserted in either of a series of holes, d''', in the upper side of the ladder-rail.

E are blocks with spring-jaws e on each side, which hold them to and beneath the ladder B', so that they may be adjusted lengthwise of the ladder, to permit shingling beneath it.

F is a stirrup placed over the ladder B' and secured to the roof by a thumb-screw, f. This stirrup may be used, for greater security of the ladder, when commencing to shingle at the lower edge of the roof, and may be removed when that part of the shingling is completed.

G is a derrick, formed of bars g with a pulley, g', in their upper ends, and their lower ends formed, as shown at Fig. 6, with a point, g'', which passes down between two rounds, b, of the ladder B', and a shoulder, g''', which rests on one round, and thus supports the derrick in a manner which permits of easily and readily removing it when desired. A cord, G', passes from the ground over the pulley g', and is connected with the short ladder C, so that when the bolt c''' is withdrawn the ladder C may be drawn up by the cord G', as shown by dotted lines at Fig. 3, and permit of drawing it and the ladder B' from the roof by sliding the ladder B' down the roof.

H is a scaffold, for use, in connection with and in any required number, at the sides of the scaffold B, and is formed of a bar, H', with blocks E and platform-supports D, the same as the ladder B'. A bar, H'', is hinged to the upper end of the bar H' in same manner as the ladders B' and C are hinged to each other, and another bar, H''', is hinged to the lower end of the bar H'', for the purpose of adapting it to a Mansard roof.

I is a support, on which slats may be placed for use in slating a roof. It has a slot, i, through which the bar H' passes, so that when the bar I is turned up, as shown by dotted

lines at Fig. 2, the bar I may be slid on the bar H', and when turned down, as shown by full lines, will be held by a pin, h.

J is a side scaffold, formed of a post or standard, J', hinged at its upper end to the lower end of the bar H' by plates j, and provided with a foot-plate, j', through a hole in which a stake may be driven to secure it to the ground.

K K are braces, hinged at their upper ends to the standard J', and provided at their lower ends with foot-plates, the same as standard J'.

L is a platform-support, the upper bar, L', of which is slotted to slide on the standard J', and the brace L'' of which is forked and strides the standard J', and has a point, l, between its forks, which enters any of a series of holes, l', in the standard, to fix the support L at any desired height, as shown at Fig. 7.

For securing the scaffold H to a roof with a flat top a bar, M, may be hinged to the upper end of the bar H' and secured to the flat part of the roof by a stirrup, m, as shown at the distant side of Fig. 1 and in Fig. 5.

N are brackets, with a vertical bar, N'', resting against the side of the building, a horizontal bar, N', with a bolt, n, inside the window, and a brace, n'.

Platforms may be placed on the platform-supports on the ladder B' and scaffold H, as described, for operations on the roof; and side scaffolds, J, may be attached to each roof-scaffold H, with supports L for platforms, for operations on the sides of the building. Platforms may also be placed on the brackets N, so that access may be had to the ladder B'' from the windows of the house, and thence to the ladder B'.

P is a bar, to be used at the ends of the house in connection with the scaffold J, as shown at Figs. 1 and 9. A loop, p, connects one end of the bar P with the upper end of the standard J', and its other end has a projecting headed end, p'. A block, Q, with a slot, q,

having an enlarged upper end, may be screwed to the house, and the end p' of the bar P inserted in the ordinary manner to secure it. The bar P is also provided with a shoulder, P', and bolt P'', by which it may be secured in a window, as shown by Fig. 8.

What I claim as new is—

1. The derrick G and rope or cord G', in combination with the ladders B' and C, and adapted to raise the ladder C, so that both ladders may be slid from the roof, substantially as and for the purpose specified.

2. The plates C', hinged to the ladders B' C by bolts c, and locked by bolts c'' c''' in series of holes c', whereby the ladders may be locked at angles to adapt them to fit roofs of different pitch, substantially as and for the purpose specified.

3. In combination with the ladder B', the blocks E, provided with spring-jaws, and adapted to support the ladder and be adjusted thereon, substantially as and for the purpose specified.

4. The slate and shingling support I, attached to the bar H', as described, in combination with the bar H' and bar H'', hinged thereto, substantially as and for the purpose specified.

5. In combination with the scaffold H, the bar M, hinged thereto, and the stirrup m, whereby said bar is adapted to be attached to a flat roof, substantially as and for the purpose specified.

6. The bar P, provided with the loop p and headed end p', in combination with a slotted block, Q, and standard J', substantially as and for the purpose specified.

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

ABRAHAM W. SILVIUS.

Witnesses:

H. A. ALLEN,  
P. R. RICHARDS.