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PATENTED AUG. 27, 1907.

A. J. HENSLEY.  
BRICKLAYER'S SCAFFOLD.  
APPLICATION FILED JAN. 24, 1907.

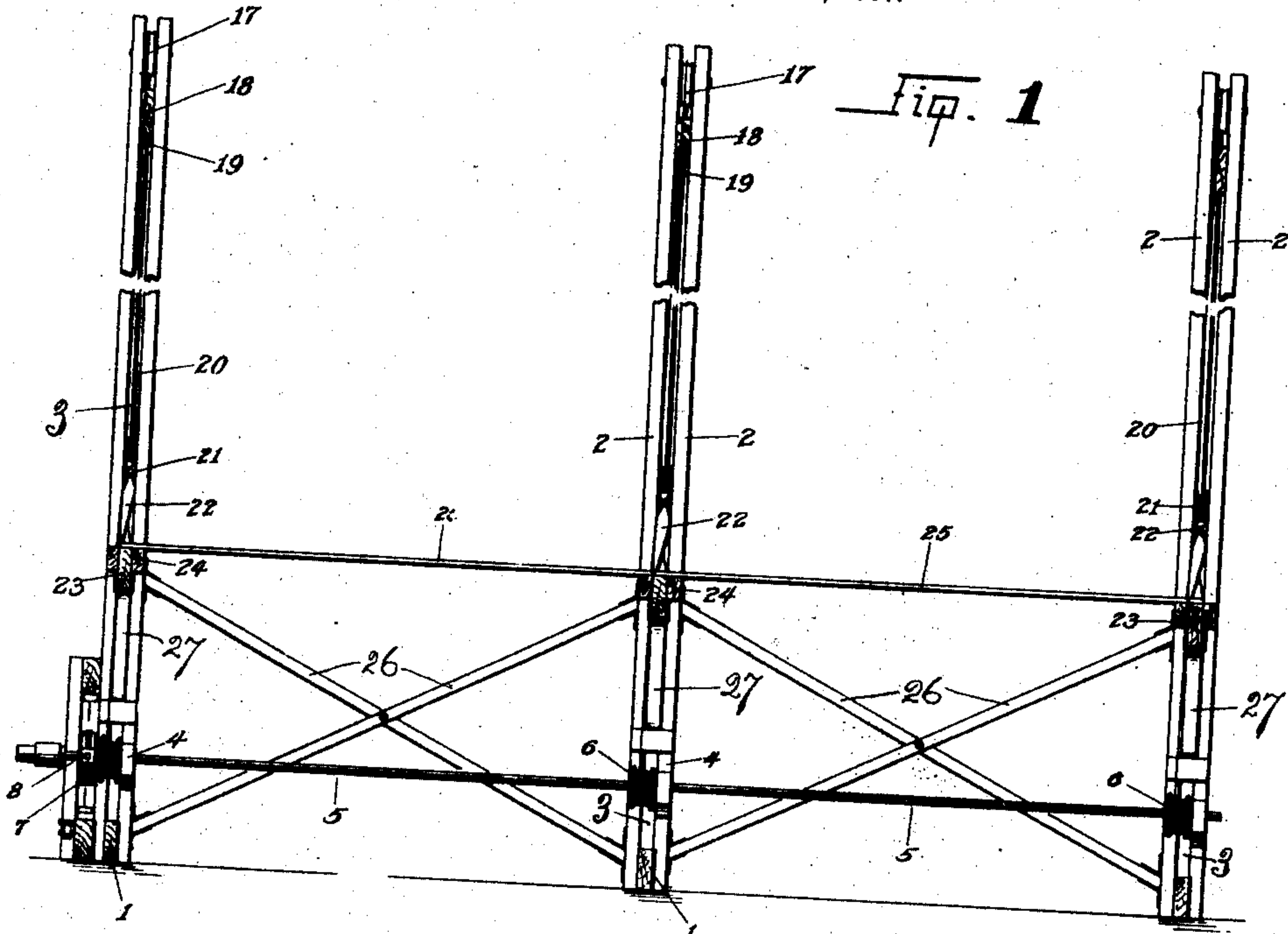
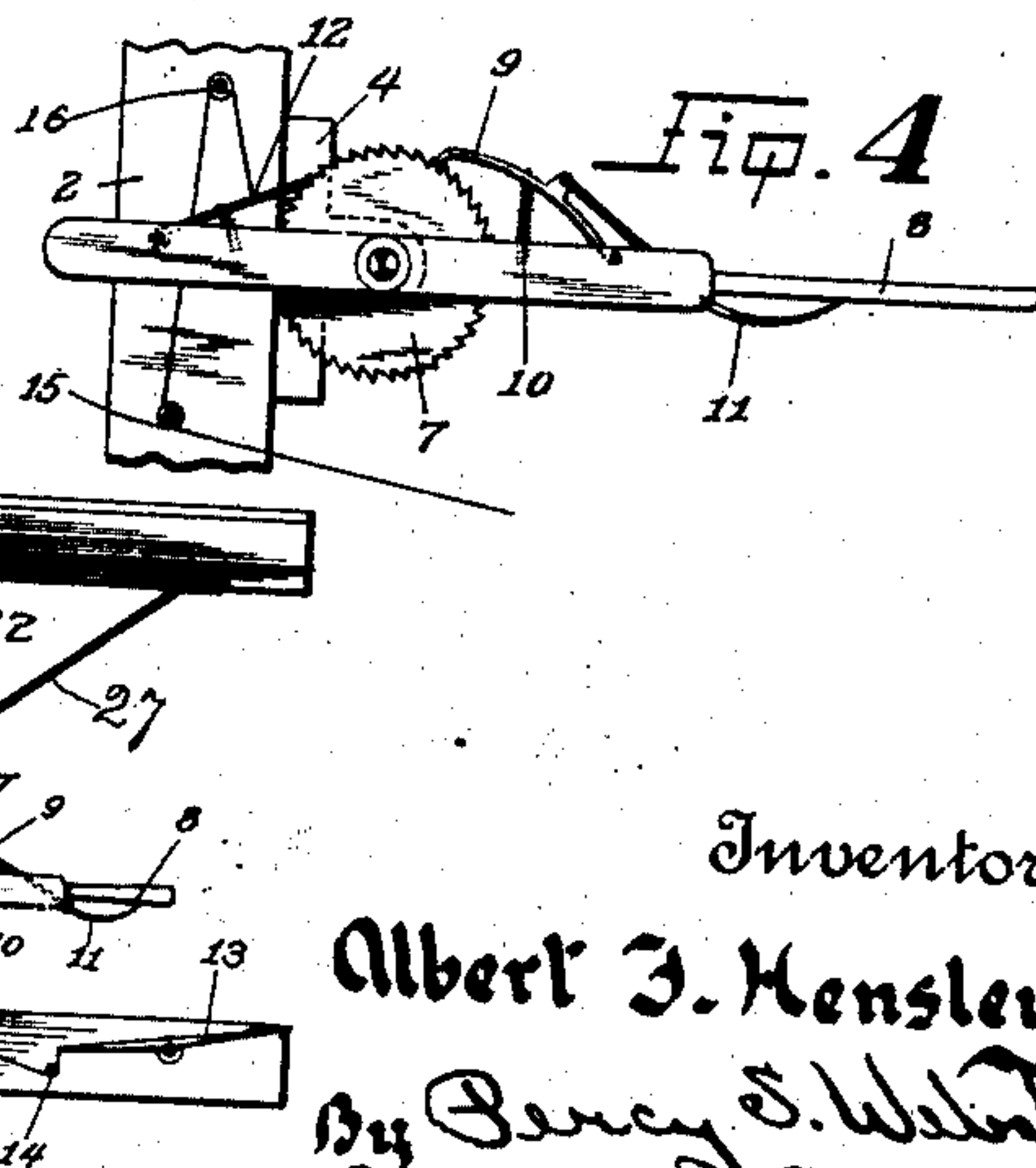
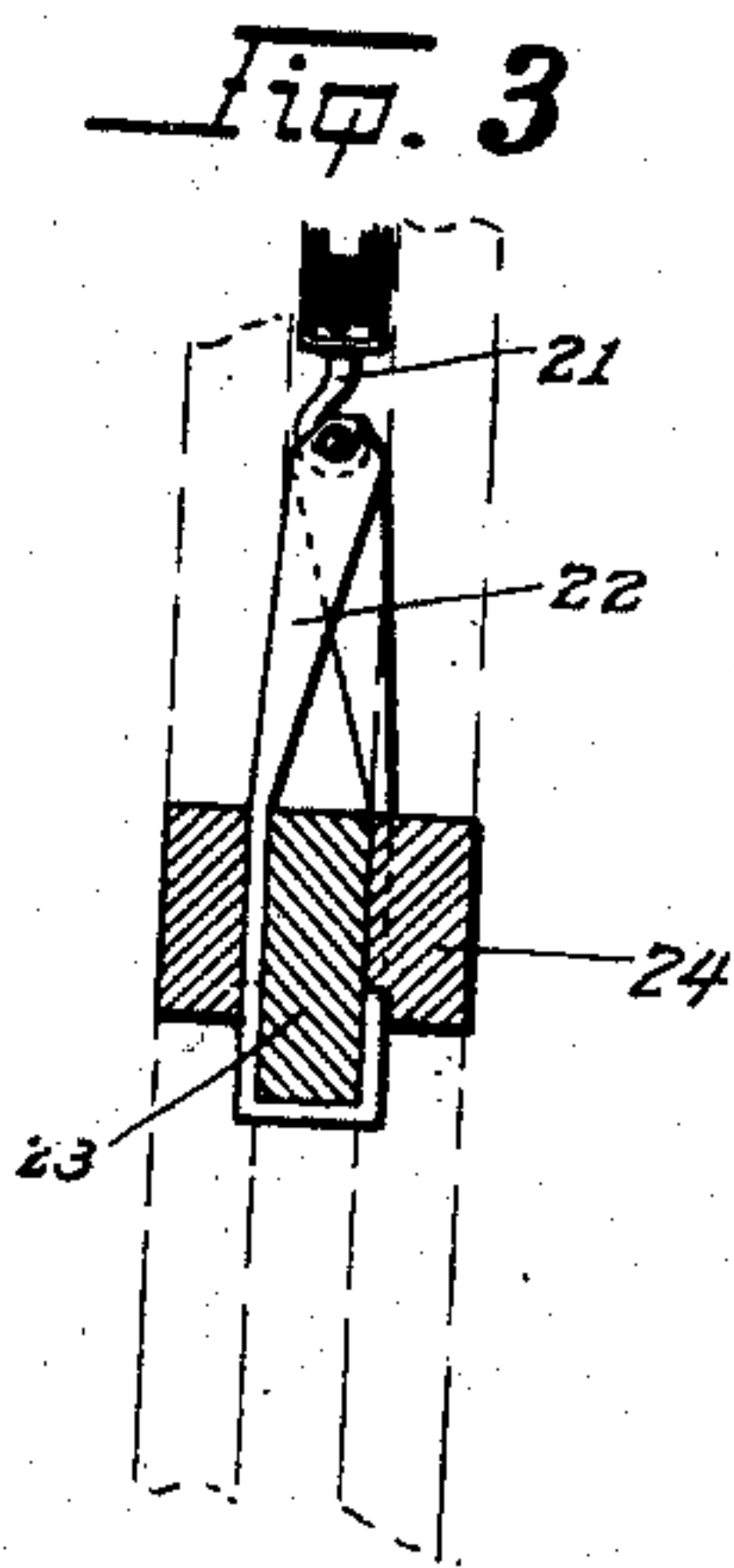


Fig. 2



Witnesses  
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# UNITED STATES PATENT OFFICE.

ALBERT J. HENSLEY, OF SACRAMENTO, CALIFORNIA.

## BRICKLAYER'S SCAFFOLD.

No. 864,303.

Specification of Letters Patent.

Patented Aug. 27, 1907.

Application filed January 24, 1907. Serial No. 353,811.

*To all whom it may concern:*

Be it known that I, ALBERT J. HENSLEY, a citizen of the United States, and a resident of Sacramento, in the county of Sacramento, State of California, have  
5 invented certain new and useful Improvements in Bricklayers' Scaffolds; and I do declare the following to be a full, clear, and exact description of the same, 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 the characters of reference marked thereon, which form a part of this specification.

This invention relates to improvements in bricklayers' scaffolds, my object being to produce an adjustable scaffold which may be raised or lowered at will and yet one which may be easily constructed and handled. This object I accomplish by means of a series of upright slotted standards, platforms slidably arranged in said slots and means for raising  
15 and lowering said scaffold.

In the drawing similar characters of reference indicate corresponding parts in the several views.

Figure 1 is a front elevation of my improved scaffold. Fig. 2 is a side elevation of same. Fig. 3 is a  
25 side view of a hanger mechanism. Fig. 4 is a side elevation of a ratchet hoisting mechanism.

1 designates beams resting horizontally on the ground on each side of which are secured upright beams 2, said beams being formed with a slot 3 there-  
30 between.

Secured to the beams 2 are journal boxes 4 in which is journaled a shaft 5, on which shaft are secured cable drums 6 arranged in alinement with the slots 3. Also secured to said shaft 5 at one end thereof is a  
35 ratchet wheel 7.

Loosely journaled on said shaft 5 at the side of the ratchet wheel 7 is a lever 8 provided with a pallet 9 engaging with said ratchet wheel and held in such engagement by means of a spring 10. To permit of  
40 the pallet 9 being released from said engagement with said ratchet wheel an auxiliary lever 11 is connected thereto and pivotally secured to the lever 8. Pivoted to the upright beam 2 is a pawl finger 12 engaging with the ratchet wheel 7 as shown in Fig.  
45 4, said pawl finger being provided with a releasing mechanism consisting of a foot lever 13 connected to said pawl finger by means of a wire or other suitable means extending over small rollers 14—15 and 16, in the manner shown.

50 Journaled between each set of beams 2 at the tops

thereof are pulleys 17 and just beneath said pulleys are secured blocks 18 having eyes 19 on the under side thereof, all for the purpose as will appear. Secured to said eyes 19 are cables 20 extending through pulleys 21 loosely hanging in the slots 3, then over the  
55 pulleys 17 and then to the drums 6 to which they are secured.

Hooked to the pulleys 21 are double hangers 22 in which are suspended cross beams, 23, to which are secured side beams 24 bearing against the beams 2  
60 in such manner as to hold the said beams 23 in a direct horizontal position as shown. Beneath and secured to the cross beams 23 are arranged suitable braces 27, having a connecting block 28 placed between their lower ends and sliding within slots 3. Secured across  
65 the tops of said beams 23 and 24 are platforms 25 on which the masons stand.

In practice when it is desired to raise the platforms 25 the lever 8 is operated which causes the pallet 9 to operate the ratchet wheel 7 which action in turn  
70 causes the shaft 5 and incidentally the drums 6 to rotate, thus winding up the cable 20 and thus drawing the beams 23 and its parts upward. The pawl finger 12 prevents any backward rotation of said ratchet wheel 7 until released by operation of the foot lever  
75 13, which releases the said pawl finger 12 from engagement with the ratchet wheel 7 and then the pallet 9 may also be released by means of the lever 11, thus permitting the platforms 25 to lower to any desired  
80 position.

The beams 2 are braced with removable brace members 26, the same being removable for the purpose of permitting the scaffold to be collapsed for removal from place to place.

Thus it will be seen I have produced a bricklayer's  
85 scaffold which substantially fulfils all the objects of my invention, as set forth in the preamble of this specification.

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

1. In a device of the kind described a plurality of pairs of upright beams formed with slots between each pair, cross beams slidably arranged in said slots, side beams secured to said cross beams on the sides thereof and  
95 bearing against said upright beams, hangers arranged on said cross beams, means in connection with said hangers for raising and lowering said cross beams, and platforms arranged on said cross beams, as described.

2. In a device of the kind described base supports pro-  
100 vided with a plurality of upright beams, platforms slidably arranged therebetween, a means for raising and lowering

said platforms consisting of a shaft journaled near the lower ends of said beams, drums secured on said shaft, cables suitably connecting said drums with said platforms, a ratchet wheel secured on said shaft, a lever 5 loosely mounted on said shaft at the side of said ratchet wheel, a pallet pivotally mounted on said lever and engaging with said ratchet wheel, means for releasing said pallet from said engagement, a pawl pivoted on one of said upright beams and engaging with said ratchet wheel,

and a foot operated lever pivoted to one of said base supports and connected by a suitable means to said pawl for releasing said pawl from such engagement. 10

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

ALBERT J. HENSLEY.

Witnesses:

A. J. MADSEN,  
ELMER GILBERT.