

Aug. 10, 1937.

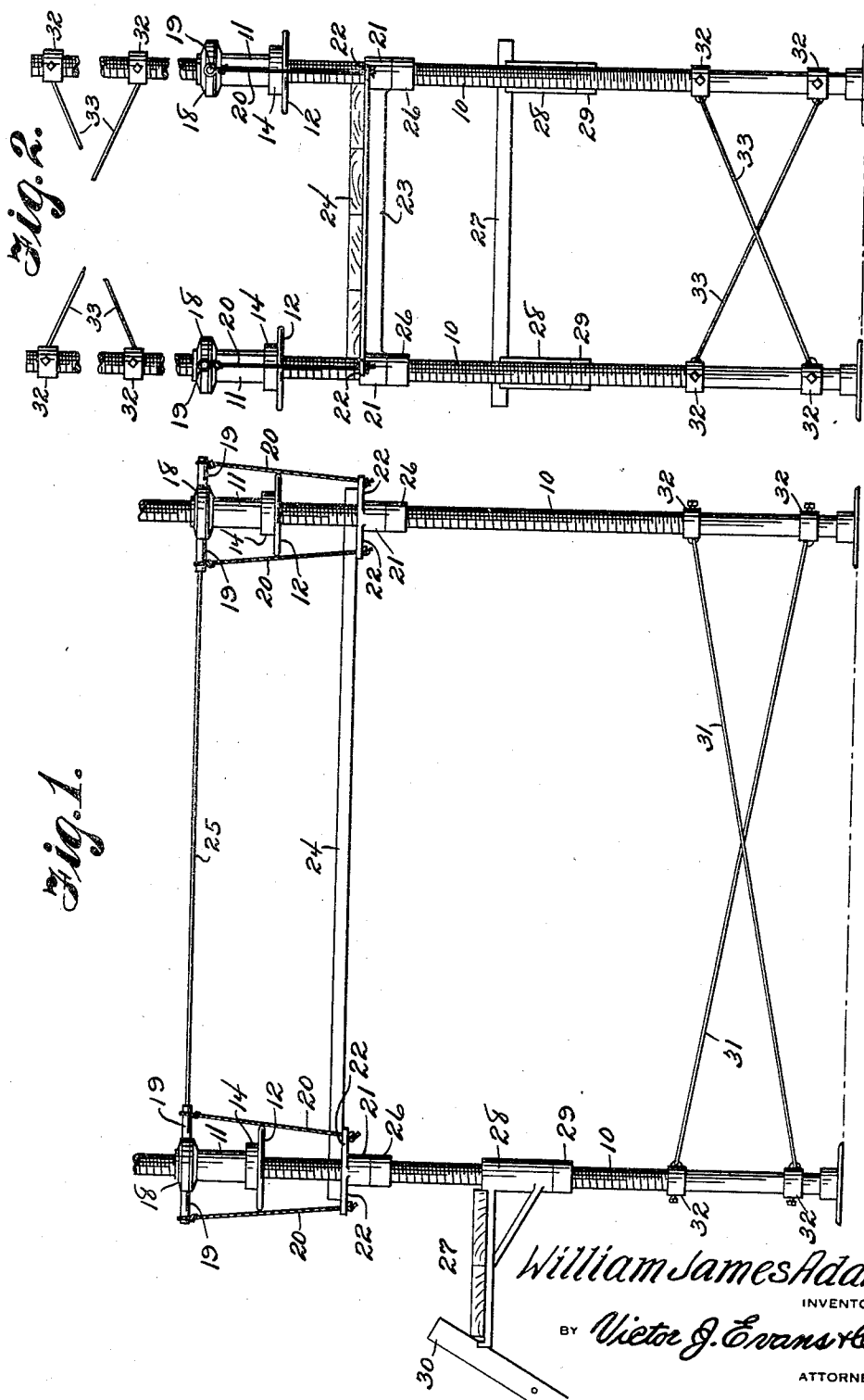
W. J. ADAMS

2,089,871

BUILDER'S SCAFFOLD

Filed Jan. 30, 1937

2 Sheets-Sheet 1



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2 Sheets-Sheet 2

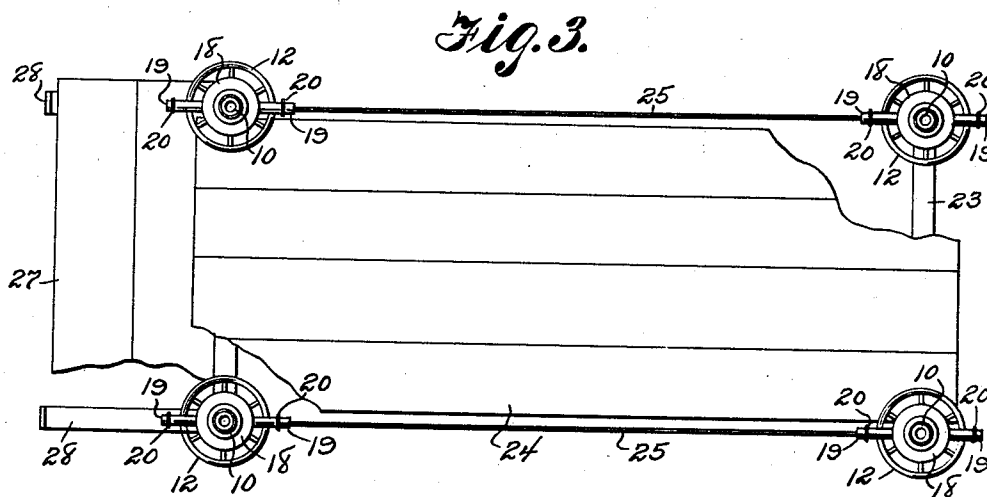


Fig. 4.

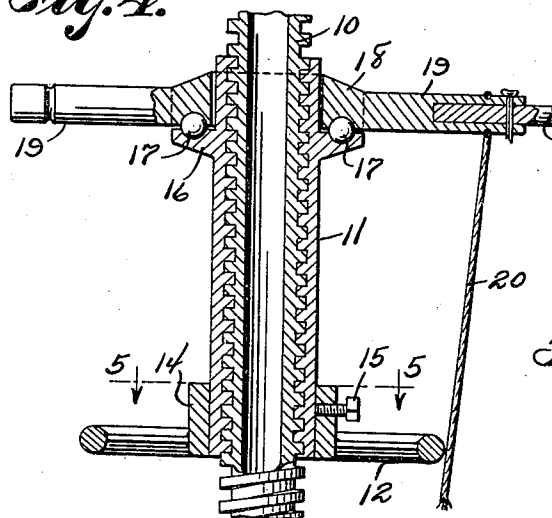


Fig. 6.

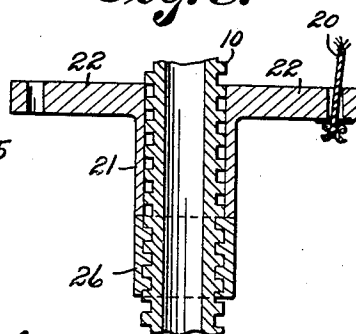


Fig. 7.

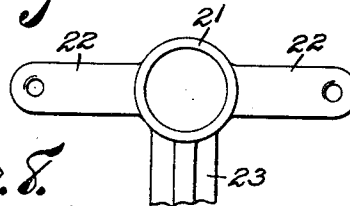


Fig. 5.

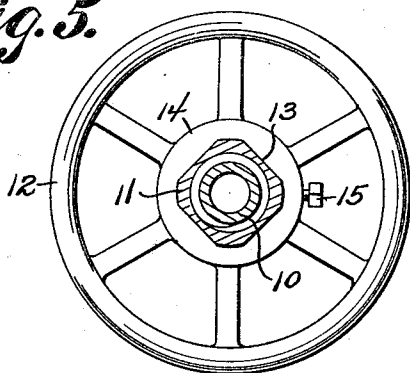
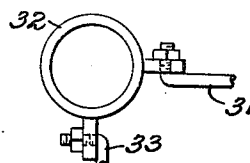


Fig. 8.



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UNITED STATES PATENT OFFICE

2,089,871

BUILDER'S SCAFFOLD

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forty per cent to Jacob Stieger, Dayton, Ohio

Application January 30, 1937, Serial No. 123,273

1 Claim. (Cl. 304—2)

This invention relates to builders' scaffolds of the type by means of which the workmen are enabled to gradually ascend along the walls of a building under construction.

5 The principal object of the invention is to provide threaded supporting columns having traveling sleeves movable by respective hand wheels for raising and lowering the platform.

10 A further object is to provide a device of this character which will be safe and efficient, which may be readily installed and operated, and which will be formed of a few strong simple and durable parts that will not easily get out of order.

15 With the above and other objects in view the invention consists of certain novel details of construction and combinations of parts hereinafter fully described and claimed, it being understood that various modifications may be resorted to within the scope of the appended claims without departing from the spirit or sacrificing any of the advantages of the invention.

20 In the accompanying drawings forming part of this specification,

25 Figure 1 is a side elevation of a builder's scaffold constructed in accordance with the invention.

Figure 2 is an end elevation of the scaffold.

Figure 3 is a plan view of the scaffold.

30 Figure 4 is a vertical sectional view through one of the traveling sleeves, platform supporting arms, and operating hand wheel.

Figure 5 is a cross sectional view taken on the line 5—5 of Figure 4.

35 Figure 6 is a detail longitudinal sectional view of one of the platform supporting members.

Figure 7 is a plan view of the parts shown in Figure 6.

Figure 8 is a plan view of one of the supports for the braces.

40 Referring now to the drawings in which like characters of reference designate similar parts in the various views, the scaffold is shown to comprise four columns 10 each externally screw threaded. As shown best in Figure 4 each column

45 is provided with a traveling sleeve 11 which is screw threadedly engaged with the column. A hand wheel 12 is secured to the lower end of the sleeve and preferably the sleeve is squared as shown at 13 in Figure 5 to fit in a similarly shaped opening in the hub 14 of the hand wheel so that the sleeve may be fed upwardly or downwardly on the column by means of the hand wheel. However, the hand wheel may be removed and a wrench applied to the squared portion 13 of the sleeve to advance or retract the sleeve. A set

screw 15 rigidly secures the hand wheel to the sleeve.

The sleeve is provided at the upper end with a cup 16 which carries ball bearings 17, and a cap 18 is slidably mounted on the column and rests upon the ball bearings. The cap is provided at diametrically opposite points with horizontal arms 19 from which cables 20 extend downwardly. A smooth collar 21, best shown in Figure 6, is slidably mounted on the column below the sleeve and is provided at diametrically opposite points with lugs 22 to which the lower ends of the cables 20 are secured. The smooth collars 21 of the four columns carry cross bars 23 upon which the platform 24 rests.

5 Hand rails 25 are connected to the horizontal arms 19 and extend longitudinally of the platform. Stop collars 26 are screw threadedly engaged with the columns and limit downward movement of the traveling sleeves 11 so that, as best shown in Figure 1, the platform, at its lower limit of movement, will be disposed within convenient stepping distance of a landing platform 27 which is carried by sleeves 28 that are screw threadedly engaged with the columns as shown best in Figure 2 and are locked in adjusted position by stop collars 29. The landing platform may be conveniently reached with a ladder 30 as shown best in Figure 1.

Longitudinal brace wires 31 are secured to brace supporting collars 32, best shown in Figure 8, and transverse brace wires 33 are also secured to these collars to reinforce the columns of the scaffold against being spread apart. Similar brace wires are arranged at the tops of the columns, as best shown in Figure 2 for a similar purpose.

35 In operation the builder may turn the hand wheel clockwise or counter-clockwise to feed the traveling sleeves upwardly or downwardly on the columns to adjust the height of the platform 24 to the building as the work progresses.

40 From the above description it is thought that the construction and operation of the invention will be fully understood without further explanation.

What is claimed is:

45 A builder's scaffold comprising externally screw threaded columns, a traveling sleeve threadedly engaged with each column, a hand wheel secured to the sleeve for rotating the sleeve, a cup on the upper end of the sleeve, bearings in the cup, a cap supported by the ball bearings and slidably mounted on the column, the cap being provided at diametrically opposite points with horizontal

arms, cables suspended from the arms, a smooth collar connected to the lower ends of the cables and slidably mounted upon the column below the sleeve, cross bars connecting pairs of said smooth
5 collars, a platform supported by said cross bars, longitudinal and transverse braces connecting

the columns above and below the platform, and stop collars on the columns limiting movement of the sleeves and platform in a downward direction.

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