

May 21, 1929.

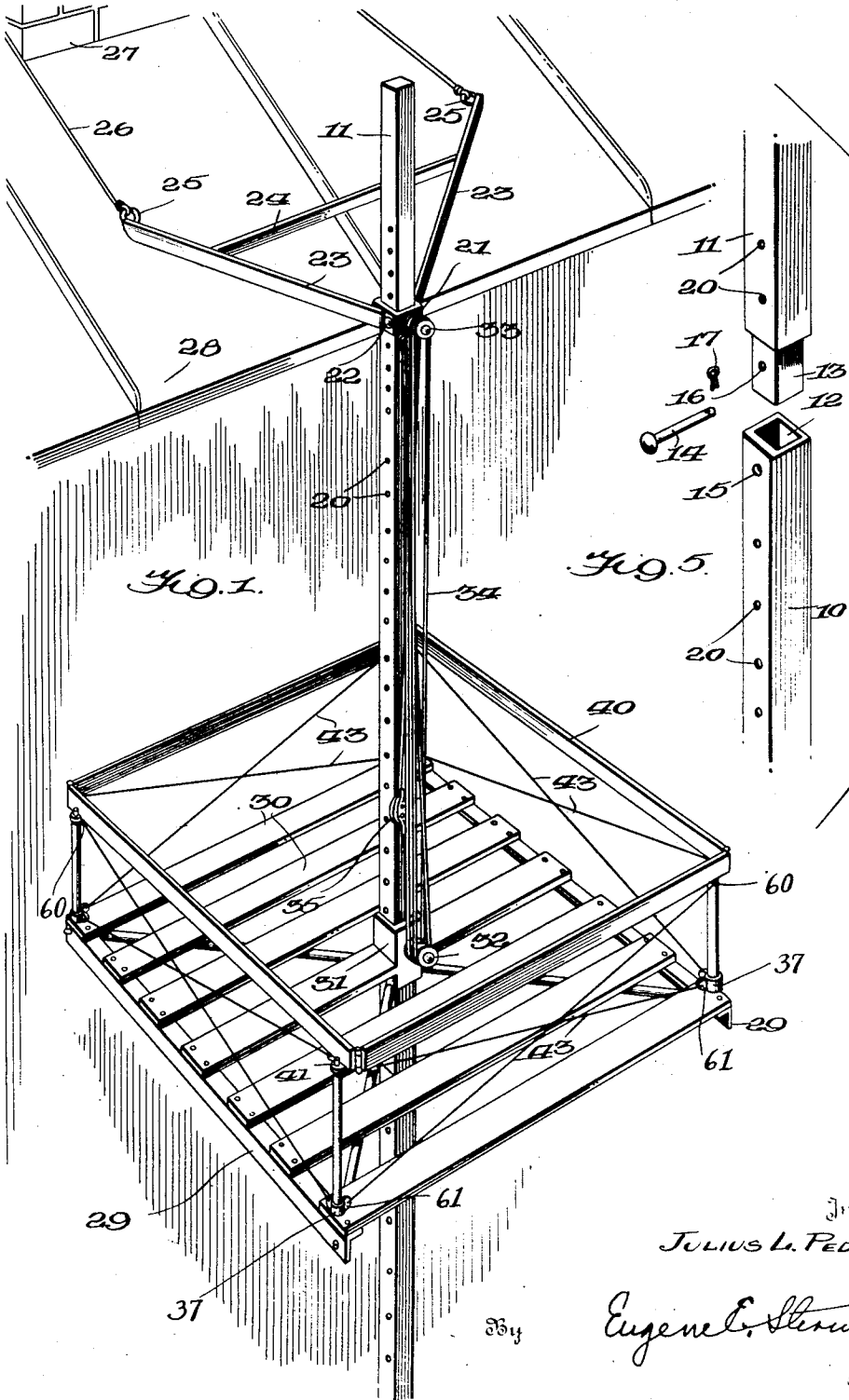
J. L. PEDERSEN

1,714,044

SCAFFOLD

Filed June 6, 1927

2 Sheets-Sheet 1



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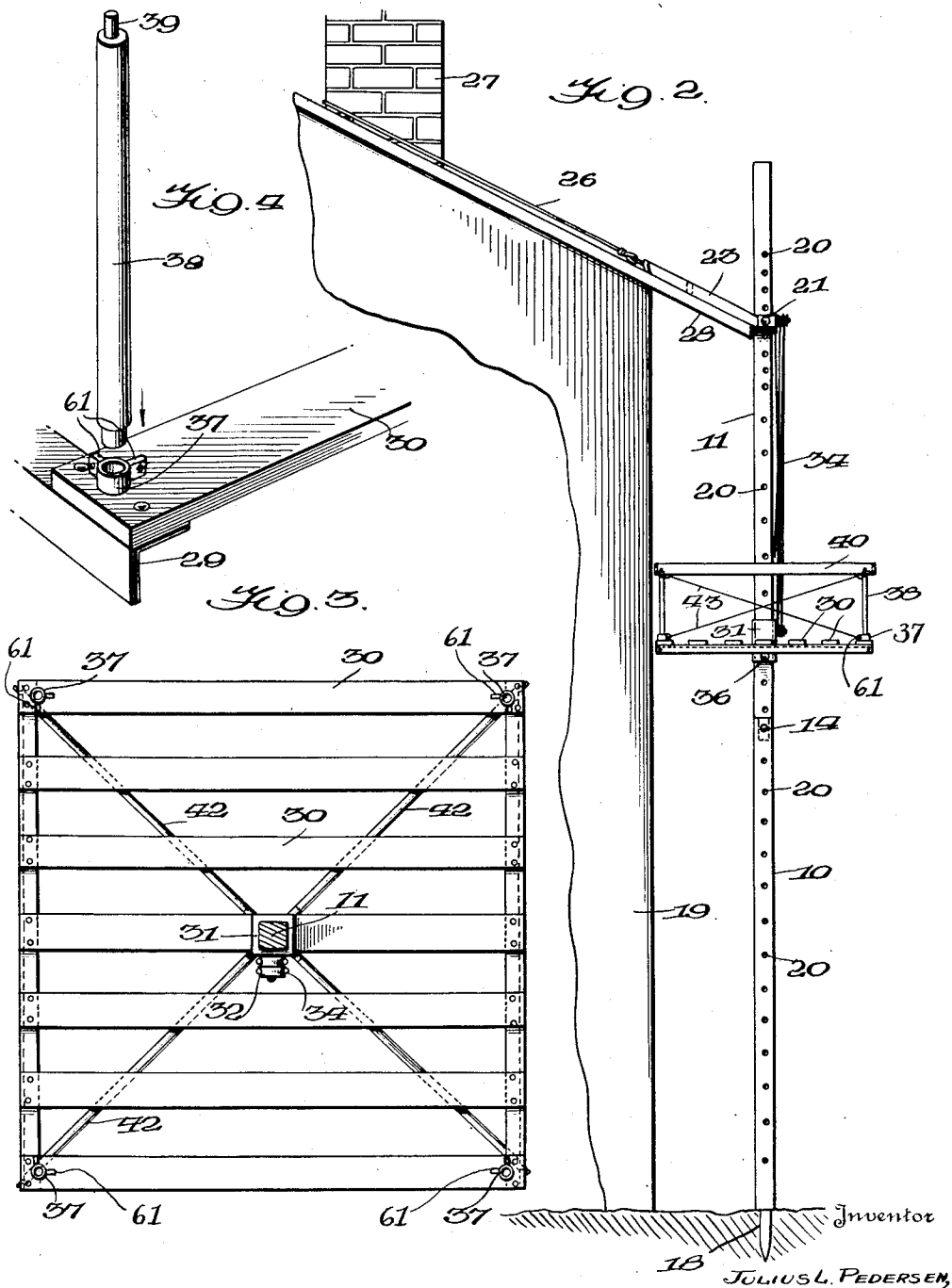
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UNITED STATES PATENT OFFICE

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SCAFFOLD.

Application filed June 6, 1927. Serial No. 196,841.

My invention relates to scaffolds, particularly of the painter's type, and has for its primary object the provision of a novel, simple and efficient scaffold capable of a variety of adjustments relative to a wall of a building.

Another object of the invention is the provision of a platform scaffold provided with a standard and having means for vertical adjustment of the platform relative to the standard.

A further object of the invention is the provision of a standard supported scaffold of sectional construction. A still further object is the provision of a scaffold of this character having means for adjusting the scaffold laterally of a building wall as well as vertically relative thereto.

With these, and such objects in view as will be apparent from the description, the invention resides in the novel construction, combination and arrangement of parts hereinafter described and claimed and illustrated in the accompanying drawings of which,

Figure 1 is a perspective of the upper portion of a building with the scaffold mounted in position relative thereto;

Figure 2 is a side elevation of the scaffold as mounted in Figure 1;

Figure 3 is a top plan view of the scaffold platform with the railing structure removed;

Figure 4 is a group perspective illustrating the manner of mounting one of the corner posts of the platform railing;

Figure 5 is a group perspective illustrating the manner of attaching the sectional elements of the standard.

In detail, the scaffold comprises a standard consisting of a plurality of sections 10 and 11 adapted for detachable connection in end to end relation and formed of squared cross section. At the meeting ends of the standard sections one of the section ends is provided with a squared socket 12 adapted to receive the squared reduced end 13 of the abutting section end for effecting a connection between the sections. The assembled sections are locked in connected position by means of a retaining member in the form of a bolt 14 adapted to be passed through the aligned transverse bores 15 and 16 provided respectively in the walls of the socket 12 and through the reduced end 13. A cotter pin 17 cooperates with the bolt 14 in a conventional manner for retaining the bolt in position.

The lower most section of the standard, designated as 10, is provided at its bottom with

an entrance member fashioned as a spike 18 adapted to be driven into the earth for disposing the standard in vertical position parallel to a building wall as shown at 19. The standard sections are provided throughout with a vertically spaced series of transverse bores 20, those adjacent the top of the standard being arranged in relatively closer relation than those disposed over the major portion thereof.

The upper end of the standard is anchored in position by means of a roof brace consisting of a squared collar 21 slidably disposed over the upper end of the standard and anchored thereon in the desired adjusted position by means of a bolt 22 passed transversely through the walls of the collar and one of the bores 20 with which the standard is provided. Secured to the collar 21 and extending from opposite sides thereof in relatively widely diverging relation are two brace arms 23 connected together for structural rigidity by means of a central brace arm 24. The free ends of the arms 23 are provided with eyes 25 to which are secured the free ends of a cable 26, which cable is adapted to be passed around some portion of the roof structure such as a chimney 27.

The brace arms 23 are inclined upwardly relative to the collar 21 as best shown in Figure 2 for accommodating the brace to the eaves of an inclined roof 28. It will be apparent that by a reversal of the top brace, the brace arms 23 may be downwardly inclined to provide for an effectual hooked engagement over a parapet, or the like, which is usual in some roofing constructions.

The operators support of the scaffold consists of a squared platform made up of angle metal bottom side bars 29, to the upper flanges of which are secured spaced floor boards 30 extending transversely between the side bars. The central floor board is formed with a sleeve 31 of squared cross section and adapted for sliding engagement vertically upon the standard. Carried by the sleeve 31 is a block and tackle pulley 32 and similarly arranged upon the collar 21 is another pulley 33. A cable 34 disposed over the pulleys 32 and 33 in the conventional manner of block and tackle arrangement, provides a means for raising and lowering the platform upon the standard. A cleat 35 is provided for attachment to the standard body for securing the free end of the cable 34, and the platform is further anchored in the desired adjusted po-

sition by means of a retaining pin 36 passed through the walls of the sleeve 31 beneath the platform and extending through one of the bores 20 with which the standard is provided.

In the assembly and operation of the invention, the standard sections are joined together and the standard is arranged vertically in parallel relation to a building wall, with the platform resting upon the ground. The top brace collar 21 is secured in the desired adjusted position and the cable 26 attached around the chimney. The operators platform may then be raised to the desired elevation by proper manipulation of the block and tackle cable 34, being retained at the desired elevation by the retaining pin 36. It will be apparent that the standard may be set up at any desired point along a building wall and may be moved laterally relative thereto for accommodating passage of the platform around laterally projecting wall elements such as balconies, cornices and the like. The scaffold is also particularly adaptable for use in connection with buildings having walls of irregular contour, as the single vertical standard permits of the scaffold being arranged in the angles of such walls.

At each corner of the platform a cylindrical socket member 37 is attached to the floor boards for the reception of the lower reduced end of a corner post 38, each corner post being provided at its upper end with an upstanding pin 39. Hingedly connected side rails 40 are provided for engagement over the upper ends of the corner posts. Adjacent each post, certain of the rails are provided with laterally projecting lugs 41 apertured for engagement over the pins 39 whereby the rails are retained in position upon the posts. Diagonal brace rods 42 extend beneath the platform from the sleeve 31 to the four corners of the platform and each of the corner posts 38 is reinforced by diagonal cables 43 arranged between the respective posts as best seen in Figures 1 and 2, wherein apertured ears 61, 60 are shown carried by socket members 37 and rails 40 respectively, for the passage of the cables 43.

While in this preferred embodiment of the invention, I have illustrated and described certain details and material entering into the construction and operation thereof, I desire it to be understood that the invention is not to be limited thereby, but that any desired changes and modifications may be made in structural details as will fall within the scope of the invention as claimed.

Having thus described the invention, what is claimed is:

1. A scaffold comprising a single ground and roof-surface supported standard, a collar adjustably mounted on said standard, divergent laterally and upwardly extending roof engaging arms carried by said collar

and adapted to rest upon a roof to hold the standard in spaced relationship to the building wall and against lateral tilting, a platform adjustably mounted on said standard, a flexible connection having its ends carried by the ends of said arms, said connection being adapted to engage around a chimney or other roof projection.

2. A scaffold comprising a single standard adapted to be set up adjacent a building wall in parallel spaced relation therefrom, means carried by said standard for anchoring the upper end thereof to a roof structure, a platform arranged on said standard for vertical movement thereon, means for raising and lowering said platform on said standard and in part carried by said anchoring means and in part carried by said platform, and means for anchoring said platform at any desired elevation on said standard.

3. In a scaffold, a vertical standard, means for anchoring the bottom thereof in the ground adjacent a building wall, a vertically adjustable roof brace carried by the upper end of said standard and including divergent roof-surface engaging arms, means for holding said brace at predetermined points on said standard, a platform arranged for slidable movement vertically on said standard, a block and tackle connection between said platform and said roof brace for moving said platform vertically on said standard.

4. In a scaffold, a carrier comprising a rectangular platform, a standard, said platform having a medial bearing through which said standard extends, said bearing having diagonally extending arms extending in the direction of each corner of said platform, one pair of said arms being disposed at right angles to the other pair, floor supporting sills secured to the ends of said arms, posts rising from said sills at the ends thereof, a railing comprising hingedly connected sections, apertured lugs at the ends of said sections and engaging the upper ends of said posts whereby to hold said railing in position to conform to the outline of said platform.

5. The combination set forth in claim 4, and said sills and the railing sections of said posts having securing means for a flexible connection, and a flexible connection attached to said securing means to brace and rigidify said posts and railing and hold the latter on the posts.

6. In a scaffold having a standard and platform slidable on the standard, a roof surface engaging brace comprising diverging arms adjustably carried by said standard, the lower end of the standard having ground engaging anchoring means, raising and lowering means in part carried by said roof engaging brace and in part carried by said platform, and a flexible chimney-engaging connection having its ends carried by said arms.

7. A scaffold comprising a vertical ground
and roof supported standard, means for an-
choring the bottom thereof in the ground,
upwardly and laterally extending divergent
5 roof engaging arms carried adjacent the top
of the standard and adapted to rest upon a
roof for supporting the top of said standard
adjacent the roof, a platform adjustably
mounted on the standard, and means carried
10 by said arms for engagement with a roof for
holding the arms in contact therewith and
the standard against outward movement.

8. In a scaffold, a carrier comprising a
platform, a standard, said platform having
15 a medial bearing through which said stand-

ard extends, said bearing having two pairs
of laterally extending platform-supporting
arms, one pair of said arms being disposed
approximately at right angles to the other
pair, floor supporting sills secured, adja- 20
cent the ends of said arms, posts rising from
said sills adjacent the ends thereof, a rail-
ing comprising hingedly connected sections,
apertured lugs at the ends of said sections and
engaging the upper ends of said posts where- 25
by to hold said railing in position to define
a safety area upon said platform.

In testimony whereof I affix my signature.

JULIUS L. PEDERSEN.