J. S. GUEST.

SCAFFOLD.

APPLICATION FILED JUNE 21, 1915.

1,172,355.

Patented Feb. 22, 1916.

2 SHEETS—SHEET 1.

Fig. 1

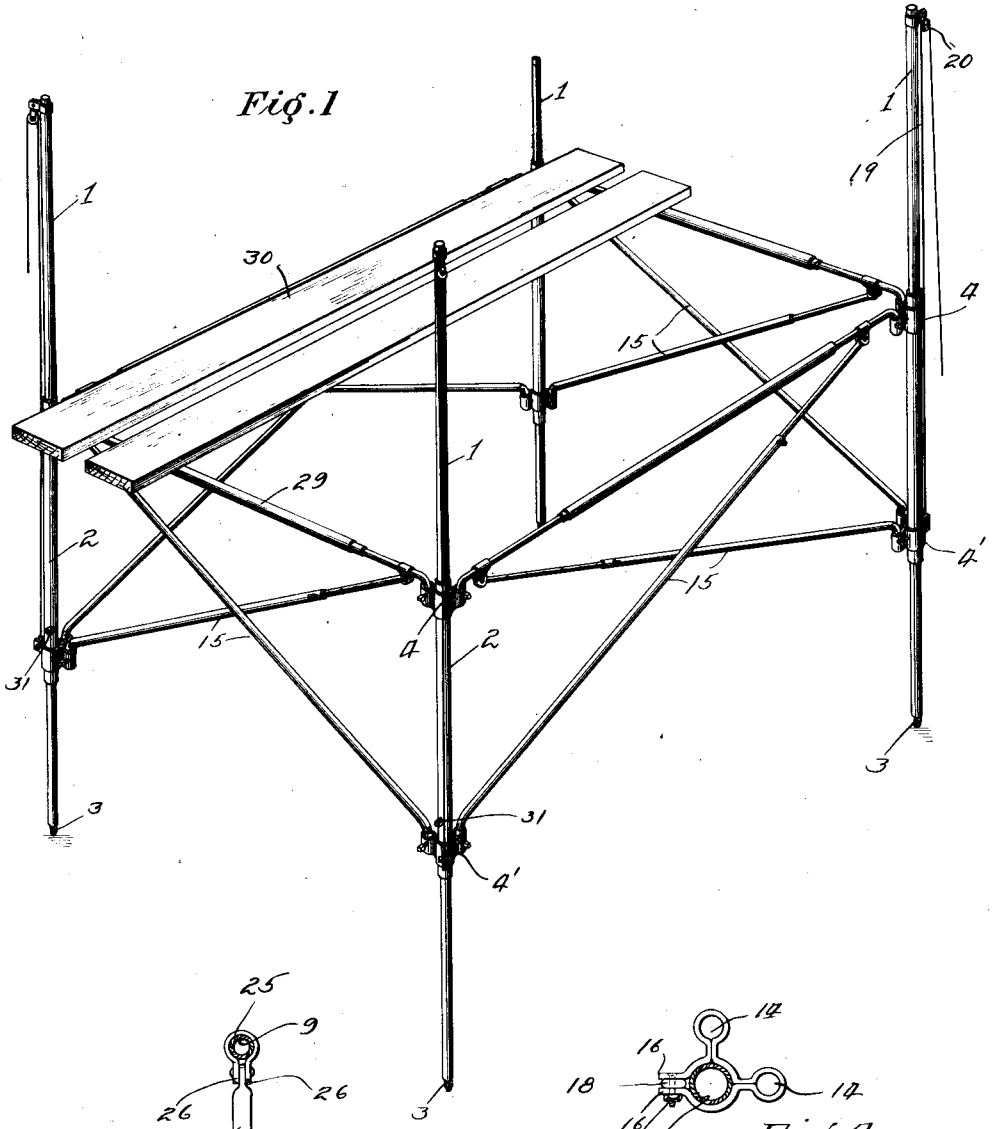


Fig. 5.

Fig. 4.

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2 SHEETS—SHEET 2.

Fig. 2.

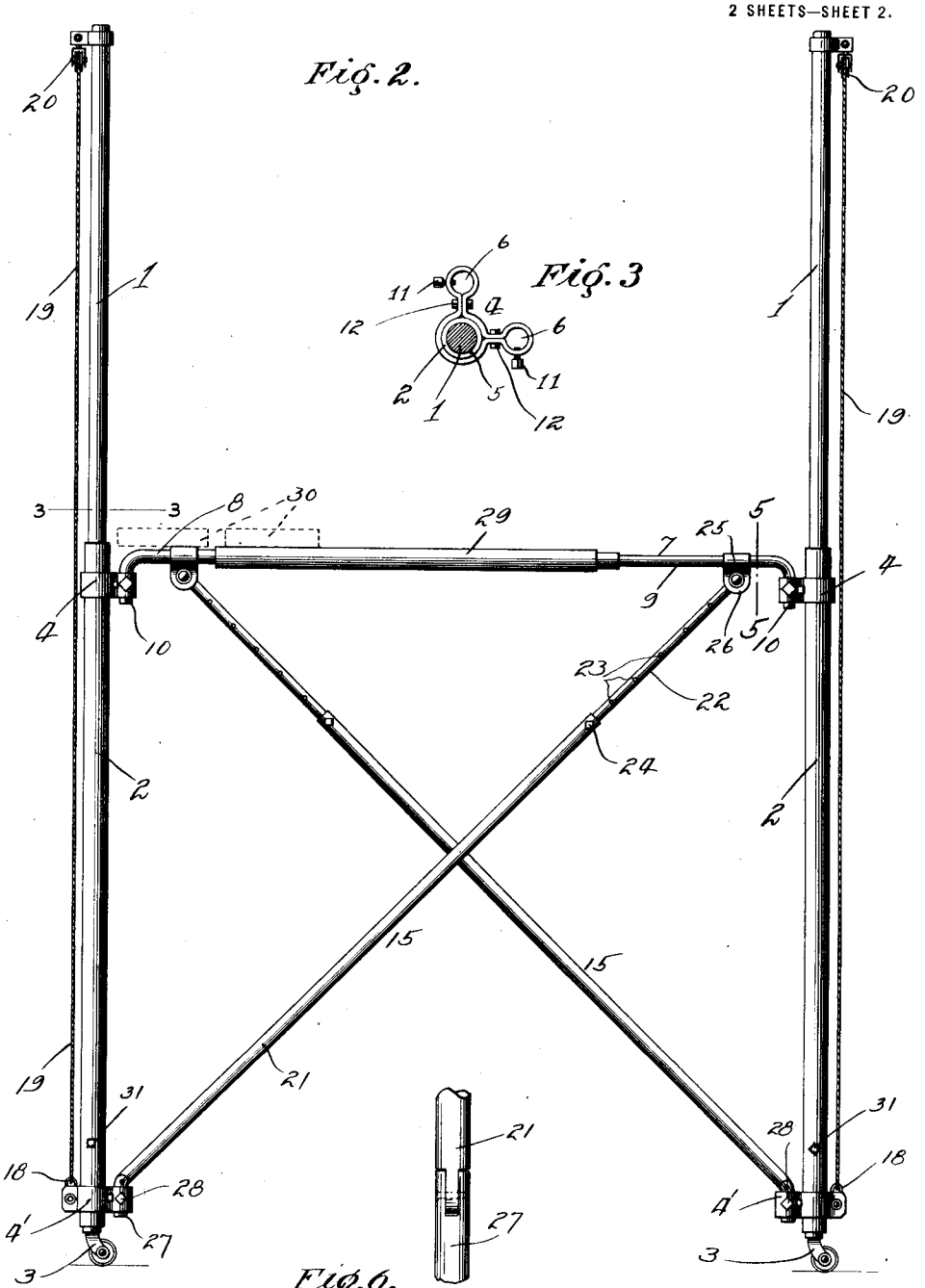


Fig. 3

Fig. 6.

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SCAFFOLD.

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To all whom it may concern:

Be it known that I, JAMES S. GUEST, a citizen of the United States, residing at Oakland, in the county of Alameda and State of California, have invented certain new and useful Improvements in Scaffolds, of which the following is a specification.

This invention relates to improvements in portable, extensible, knock-down scaffolds and has for its principal object the construction of a scaffold of this character, the different elements of which may be quickly assembled and disassembled, and which is adjustable in length, breadth and height.

Another object of my invention is to so construct the scaffold that it may be quickly erected, that it may be so arranged as to assume other than rectangular shape, that it may be used on an inclined surface while maintaining the platform horizontal, and that when erected the same is strong and rigid.

Still another object of my invention is to construct the scaffolding of such material that the same is light in weight and cheap to manufacture.

A still further object of my invention is to provide a scaffold which is suitable both for exterior or interior decorative work and for fruit picking and the like.

With these and other objects in view my invention consists in the novel construction, combination and arrangement of parts as herein described and more specifically pointed out in the appended claims.

Reference being had to the accompanying drawing forming a part of this specification, Figure 1 is a view in perspective showing my new scaffold in its assembled position and the platform partly raised. Fig. 2 is a view in end elevation showing the scaffold with the platform in its lowermost position. Fig. 3 is a view of one of the members used for attaching the horizontal platform supporting members, as at 3—3, Fig. 2. Fig. 4 is a view in plan of one of the members used for supporting the diagonal brace rods. Fig. 5 is a view in section on the line 5—5, Fig. 2. Fig. 6 is an enlarged view of one of the brace rods adjacent its lower end.

Referring to corresponding parts by the same numerals of reference, 1 denotes the upright posts on which are slidably mounted the sleeves 2, and on the bottom of which are placed suitable casters 3, these casters being of such shape and size as to adapt the surface on which they are used. Thus for outside orchard use a large wide wheel caster would be used, whereas, for interior work on hard wood floors a small leather or felt caster may be substituted.

Clamped adjacent the upper end of the sleeve 2 is a holding member 4 preferably bent from rectangular bar steel into the shape shown in Fig. 3. This member contains the circular aperture 5 fitting the sleeve 2, and the apertures 6 into which the tie rods 7 are adapted to fit. Each of these cross rods comprise members 8 and 9, the latter being slidably arranged in the former and one end of each of the members being bent at right angles as shown at 10. This bent portion fitting within the apertures 6 and being held therein by means of set screws 11. It will also be noted that member 4 is clamped on the sleeve 2 by means of bolts 12.

Clamped adjacent the lower end of the sleeve 2 is the member 4′ shown in detail in Fig. 4, this member being bent from a rectangular bar and is provided with the apertures 13 for the sleeve, apertures 14 for the diagonal brace rod 15, and is also provided with certain axially extending wings 16 through which passes a bolt 17. This bolt serves not only to clamp the member in position, but also as a support for the link 18, to which is attached a cable 19. This cable extends upwardly along the upright posts 1 and through a pulley 20, supported adjacent the top of the upright post, the other end of this cable being made fast to some convenient portion of the scaffold.

The diagonal brace members 15 are each formed of two tubular members 21 and 22, the latter telescoping within the former. Member 22 is provided with a series of holes 23, while 21 is provided with a bolt 24 adapted to enter these holes 23, thereby holding the two members rigid with respect to each other.

Upon the longitudinal members 8 and 9 adjacent the angular portion 10 is clamped the member 25 having ears 26 between which the end of rod 22 is pivotally held. The lower end of member 21 is pivotally attached to a short stud 27, this stud being adapted to fit in the openings 14 in member 12 thereby allowing the latter member to assume the various angles with respect to the brace rod. This stud is held within the openings 14 by means of a set screw 28.

In use the various members of the scaffold are erected, as shown in Figs. 1 and 2, and a sleeve 29 is placed on the horizontal members 7 thereby serving to further stiffen these members and provide a roller by which the plank 30 forming the platform can be more readily placed in position. If the platform in the scaffold is positioned, as shown in Fig. 1, is not of sufficient height then by means of the cable 19 these sleeves 2 may be raised on the post 1 so as to bring the platform in any desired level. The platform is held in this position by means of set screws or pins 31, passing through sleeves 2 and contacting with the uprights 1.

It will also be apparent that when the platform is thus raised the scaffold may be moved along over counters and other low obstacles. If the floor or ground is on an incline then by raising the sleeves at one end more than at the other, the platform may be maintained level.

While I have illustrated and described the preferred embodiment of my invention it will be understood that I do not limit myself to the exact construction shown, but may adopt such modifications as fall within the scope of the claims.

What I claim as new and wish to cover by Letters Patent is:—

1. A scaffold of the character described comprising upright corner posts, sleeves slidably mounted on said posts, horizontal telescopic tie rods connecting the upper end of said sleeves, and diagonal telescopic brace rods connecting the bottom of one sleeve with the opposite ends of the tie rods extending from said sleeve.

2. A scaffold of the character described comprising upright corner posts, sleeves slidably mounted on said posts, horizontal telescopic tie rods connecting the upper end of said sleeves, diagonal telescopic brace rods connecting the bottom of one sleeve with the opposite ends of the tie rods extending from said sleeve, and means for holding the telescopic parts of said brace rods in fixed relation to each other.

3. A scaffold of the character described comprising upright corner posts, sleeves slidably mounted on said posts, horizontal telescopic tie rods connecting the upper end of said sleeves, diagonal telescopic brace rods connecting the bottom of one sleeve to the end of said tie rods at a point near the adjacent corner posts, and means for raising and lowering said sleeves.

4. A scaffold of the character described comprising upright corner posts, sleeves slidably mounted on said posts, horizontal telescopic tie rods connecting the upper end of said sleeves, a sleeve slidably mounted on said tie rods, a platform supported on said horizontal tie rods, and diagonal telescopic brace rods connecting the bottom of one sleeve to the opposite ends of the tie rods extending from said sleeve.

5. A scaffold of the character described comprising upright corner posts, sleeves slidably mounted on said posts, holding members attached to the upper and lower ends of said sleeves, said members having openings parallel to the axis of said sleeve, horizontal telescopic tie rods having angular bent ends adapted to fit the opening of the said members at the top of said sleeves and telescopic brace rods pivotally attached to said tie rods adjacent their bent ends and a pivotally attached stud adjacent the lower ends of said brace rods, said studs being adapted to fit the aperture of the lower of said holding members.

In testimony whereof I affix my signature in presence of a witness.

JAMES S. GUEST.

Witness:
M. L. LUDINGTON.