

No. 668,627.

Patented Feb. 26, 1901.

C. S. CROW.

PORTABLE AND ADJUSTABLE SCAFFOLD.

(Application filed Aug. 13, 1900.)

(No Model.)

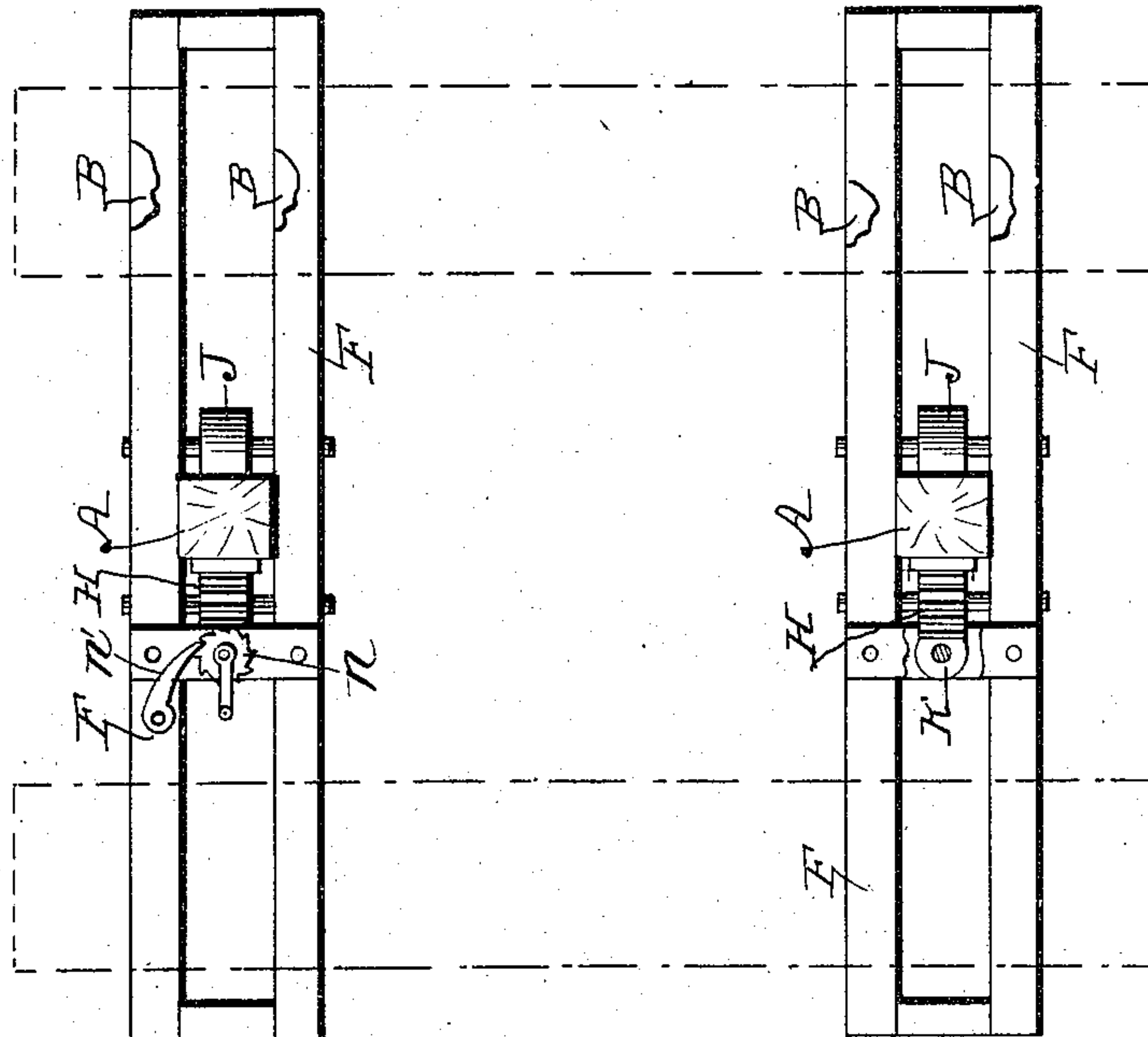


Fig. 2

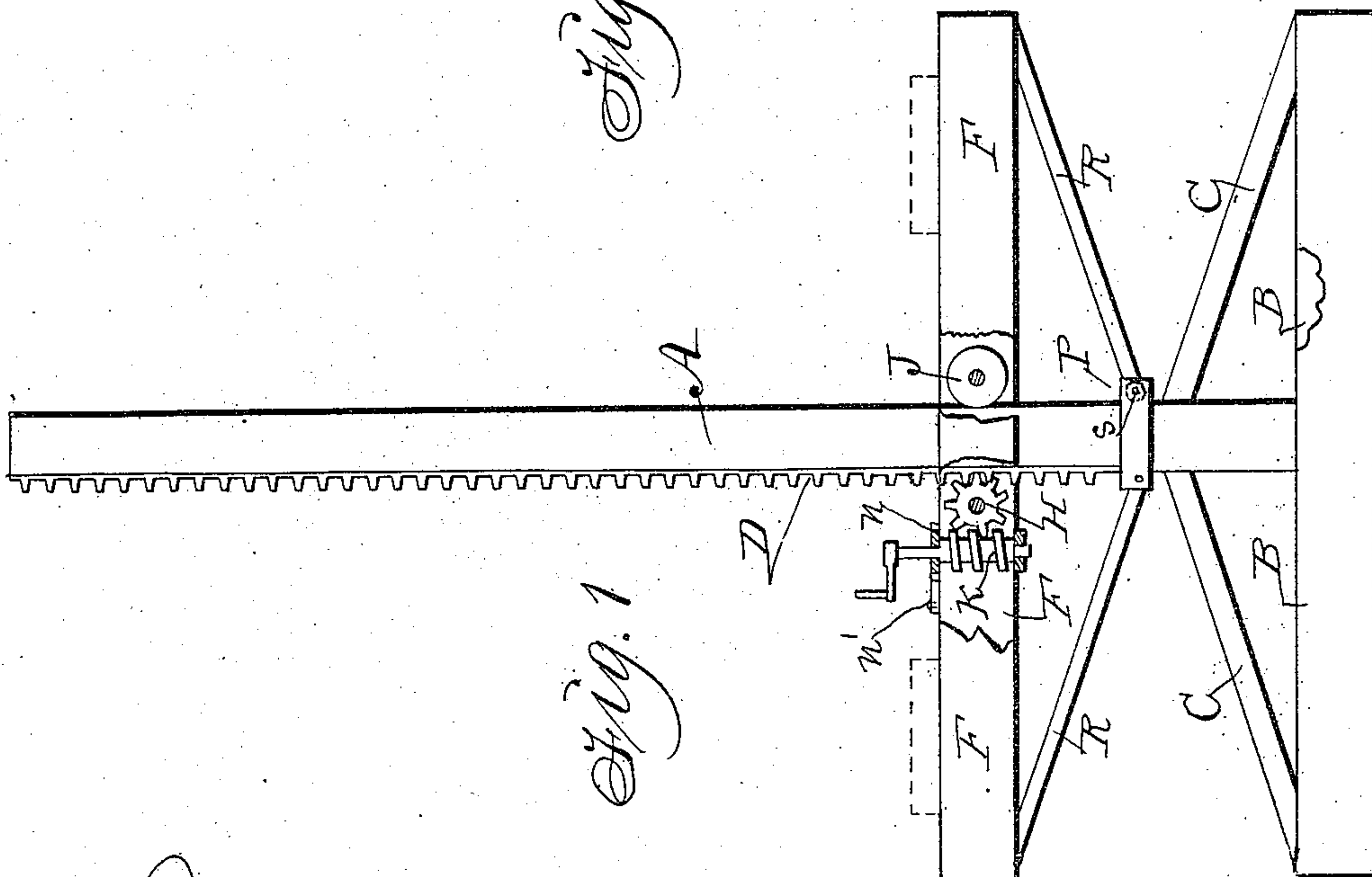


Fig. 1

Witnesses:  
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# UNITED STATES PATENT OFFICE.

CHARLES S. CROW, OF FRENDALE, IOWA.

## PORTABLE AND ADJUSTABLE SCAFFOLD.

SPECIFICATION forming part of Letters Patent No. 668,627, dated February 26, 1901.

Application filed August 13, 1900. Serial No. 26,684. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES S. CROW, a citizen of the United States, residing at Frendale, in the county of Johnson and State of Iowa, have invented a new and useful Portable and Adjustable Scaffold for Bricklayers, &c., of which the following is a specification.

My object is to provide portable standards and adjustable platform-supports to facilitate setting up, adjusting, and taking down scaffolds when used for building walls, painting, paper-hanging, and other various purposes for which scaffolds are required.

My invention consists in the construction, arrangement, and combination of parts, as hereinafter set forth, pointed out in my claim, and illustrated in the accompanying drawings, in which—

Figure 1 is a side elevation of one of my portable standards and platform-supports and the mechanism for raising and lowering the platform-supports. Fig. 2 is a top view of a pair of standards and platform-supports in position as required to be connected by means of movable planks, as indicated by dotted lines and as required for supporting materials and persons at different points of elevation at different times.

The letter A designates a wooden standard, about ten feet high and four inches square, to which are fixed at its bottom and in parallel position with each other two mating horizontal straight pieces B to serve as a base to support the standard in an upright position. These mating pieces are about six feet long and two by four inches in size and jointly fixed to the bottom of the standard by means of screw bolts and nuts or in any suitable way. A single upright having an extended base and a platform fitted thereto and supported by braces fixed to its ends and to a collar slidably connected with the upright is thus advantageously constructed and adapted for connecting hoisting mechanism with the upright and platform for producing a scaffold adapted to be adjusted by persons on the scaffold. Braces C are fixed between the ends of the mating base-pieces B and to the standard A. A rack D is fixed to one of the parallel faces of the standard A. Two

mating pieces of wood F, corresponding in size with the base-pieces B, are rigidly connected at their ends in such a manner as to produce a frame and platform-support adapted to be slidably connected with the standard A, as shown in Fig. 1. A pinion H is journaled between the mating parts F of the frame to engage the rack D and a roller J to engage the plane face of the standard A. A worm K in bearings fixed to the mating pieces F engages the pinion H in such a manner that when the worm is operated by means of a crank-handle *m* the platform-support can be raised and lowered thereby as required to adjust the platform relative to the standard A. A ratchet *n*, fixed to the worm, and a pawl *n'*, pivoted to the platform-support, serve as a means for locking the worm as required to retain the platform-support at any point of elevation desired.

P is a collar adapted to move up and down on the standard A, and braces R, fixed to the collar, are also fixed to the end portions of the platform-support to aid in retaining the platform level while in motion or at rest. An antifriction-roller *s* is journaled in the end of the collar P to engage the plain face of the standard A, as required to prevent friction and to facilitate the up-and-down movements of the collar and platform-supports.

In the practical use of my invention I place two of the standards and platform-supports in such position as desired, inside or outside of a building, and then place planks upon the platform-supports to extend over both, as indicated by dotted lines in Fig. 2, and to raise or lower them I operate the worms that engage the racks.

Having thus described the construction and operation of my invention, its practical utility will be readily understood by persons familiar with the art to which it pertains.

What I claim as new, and desire to secure by Letters Patent, is—

In a portable and adjustable scaffold, an upright having an extended fixed base and a fixed rack on one of its faces, a platform-support consisting of an oblong frame fitted to the upright, a pinion journaled to the platform-support to engage the fixed rack, a roller



5 journaled to the frame to engage the flat face of the upright, a worm journaled to the frame to engage the pinion and provided with a handle, a ratchet-wheel fixed to the worm, a pawl pivoted to the frame to engage the ratchet-wheel, a collar slidably connected with the upright below the frame and braces

fixed to the collar and to the ends of the frame, all arranged and combined as shown and described for the purposes stated.

CHARLES S. CROW.

Witnesses:

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