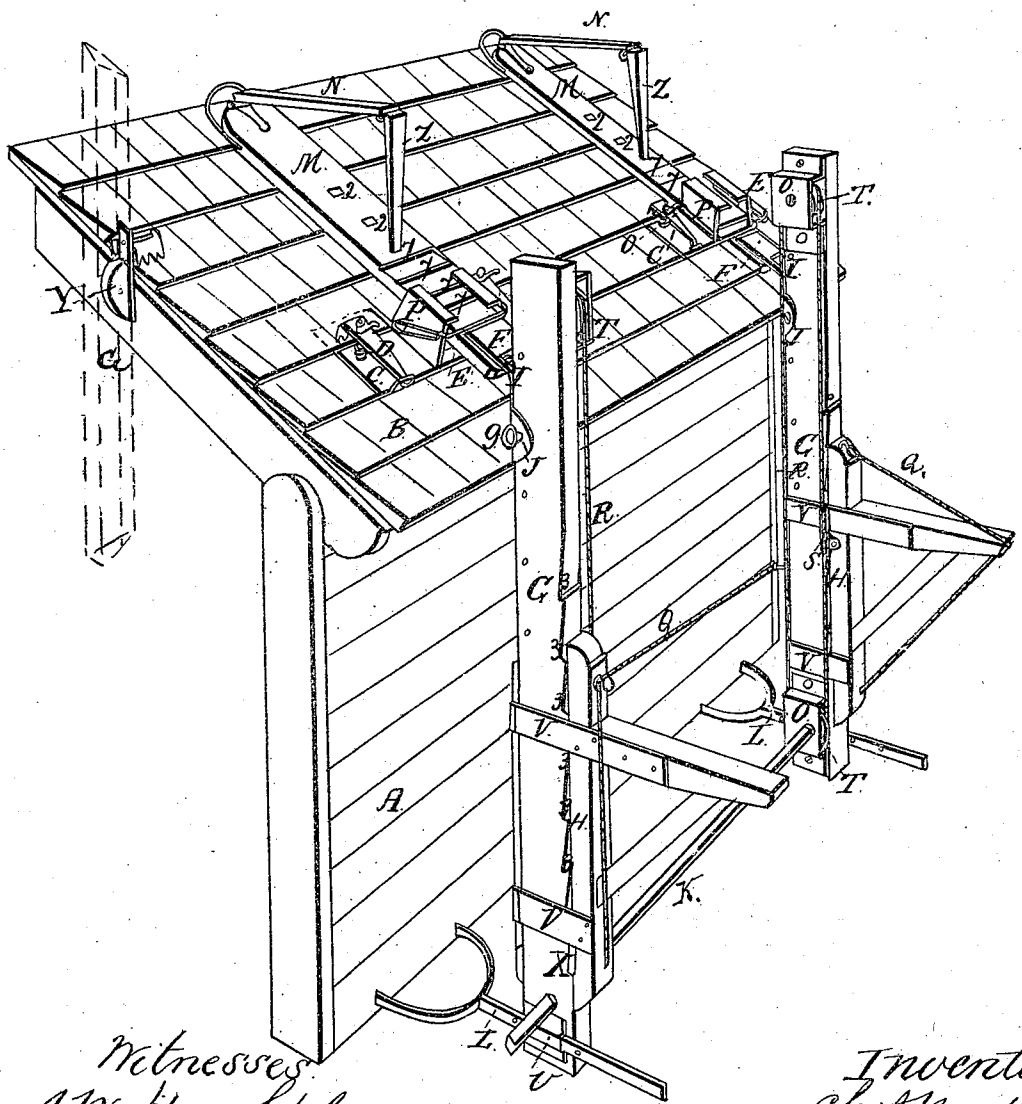
C. Mudge,

Scaffold.

No. 77,308. Patented Apr. 28. 1868.



Witnesses
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CHARLES MUDGE, OF OVID, MICHIGAN.

Letters Patent No. 77,308, *dated April* 28, 1868.

IMPROVED BUILDERS' AND PAINTERS' SCAFFOLD.

The Schedule referred to in these Letters Patent and making part of the same.

TO WHOM IT MAY CONCERN:

Know all men that I, CHARLES MUDGE, of Ovid, in the county of Clinton, and State of Michigan, have invented a new and useful Improvement in Builders' and Painters' Scaffold; and I do declare that the following is a true and accurate description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, and being a part of this specification.

The object of this invention is to construct an apparatus for sustaining and adjusting platforms, for the use of builders and painters, that will save the expense of ladders, will furnish a much safer platform than those in ordinary use, and will be easily transported and set up for use.

A is the side of a building, and B the roof. C are plates, the upper ends of which are wedge-shaped, which allows their points to be forced under the ends of the shingles, and are provided with two openings, E, to receive the bars M, as hereinafter described. To the plates C are attached the adjustable spurs D, which are designed to hold the plates firmly in place, by forcing the points of the spurs into the shingles. These plates C are each provided with two openings, one above the other. These openings E are for the purpose of holding the bars M, which are placed in the upper or lower openings, as circumstances may require, to clear eaves-troughs, or other projections on the roof.

F are vibrating-latches, provided with proper springs, pivoted to the plates C, and are intended to catch into the depressions or racks 7, in the bars M, to prevent their sliding downward, but, at the same time, will admit of the bars being moved up or down, as circumstances may require. At their upper ends are hinged supporting-bars N, hinged at their other ends to braces, Z, which braces serve to sustain and hold the bars N at any desired angle, by securing the lower ends of the braces in notches, 2, in the bars M; the whole together forming a very convenient and efficient scaffold for shingling purposes.

At the lower ends of the bars M are securely fastened the plates F, which project far enough over the ends of said bars to form an eye in the plates, for the insertion of proper hooks, which form a part of the plates J, which are attached to the standards G, to which the following-described parts of the apparatus are attached: At each end of the standards G, and upon the inner sides thereof, are secured, within proper boxes O, the pulleys T, which are connected in pairs by the ropes R, and all kept in parallel motion by the square rod K, which passes through the lower pulleys.

L are braces passing through slides U, and secured in place by proper pins through the braces, and resting against the back side of the standards G, the forked ends of said braces resting against the building, thereby securing a vertical and parallel position of said standards.

H are sliding adjustable platform-supporters, which are secured loosely to the standards G, by the straps V passing around said standards, while their ends are securely fastened to the supporters H, which are supported by pawls, X, which are fitted to the lower ends of the supporters H. The upper ends of said pawls X are hinged to the supporters H, and between the lower ends of the pawls and the supporters are placed suitable springs, which press against the lower ends of said pawls, and secure their catching in the notches 3, in the standards G, thereby supporting the platform-supporters H.

The lines or cords Q are connected, at their lower ends, with the lower ends of the pawls. By pulling said ropes, (which can be done by any one standing upon the platform,) the pawl is drawn back, which releases the same from the notches, and allows the supporters to slide up and down freely.

The ropes R are fastened to the supporters H by proper fastenings, S, by which arrangement the platform, which is made by placing plank upon the arms of the supporters H, may be raised or lowered by the operator without leaving the platform, by first releasing the pawls, as hereinbefore described, and allowing the whole to slide down, regulating the motion by grasping with the hand the back-rope R, elevating or depressing the platform, as may be desired, as with ordinary ropes and blocks.

The hook-plates J are so arranged that they are adjustable upon the standards G, allowing them to be changed up or down, according to the height of the building.

The standards G may be used upon ends of buildings, and secured to the roof by plate and spurs Y, whenever desired.

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

1. The slide-bars M, the supports N, standard-braces Z, the plates C, provided with slots E, spur-hooks D, the vibrating-rods and springs P, when arranged and operating in connection with hanger-plates F.

2. The standards G, the platform-supporters H, projections 3, pawl or clip X, operated by ropes R and Q, pulleys T, and rod K, when constructed and operating substantially as and for the purposes set forth.

3. The combination of the foregoing-named parts with the adjustable hook-plates I and braces L, when arranged, constructed, and operating substantially as herein shown and described.

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Witnesses:

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