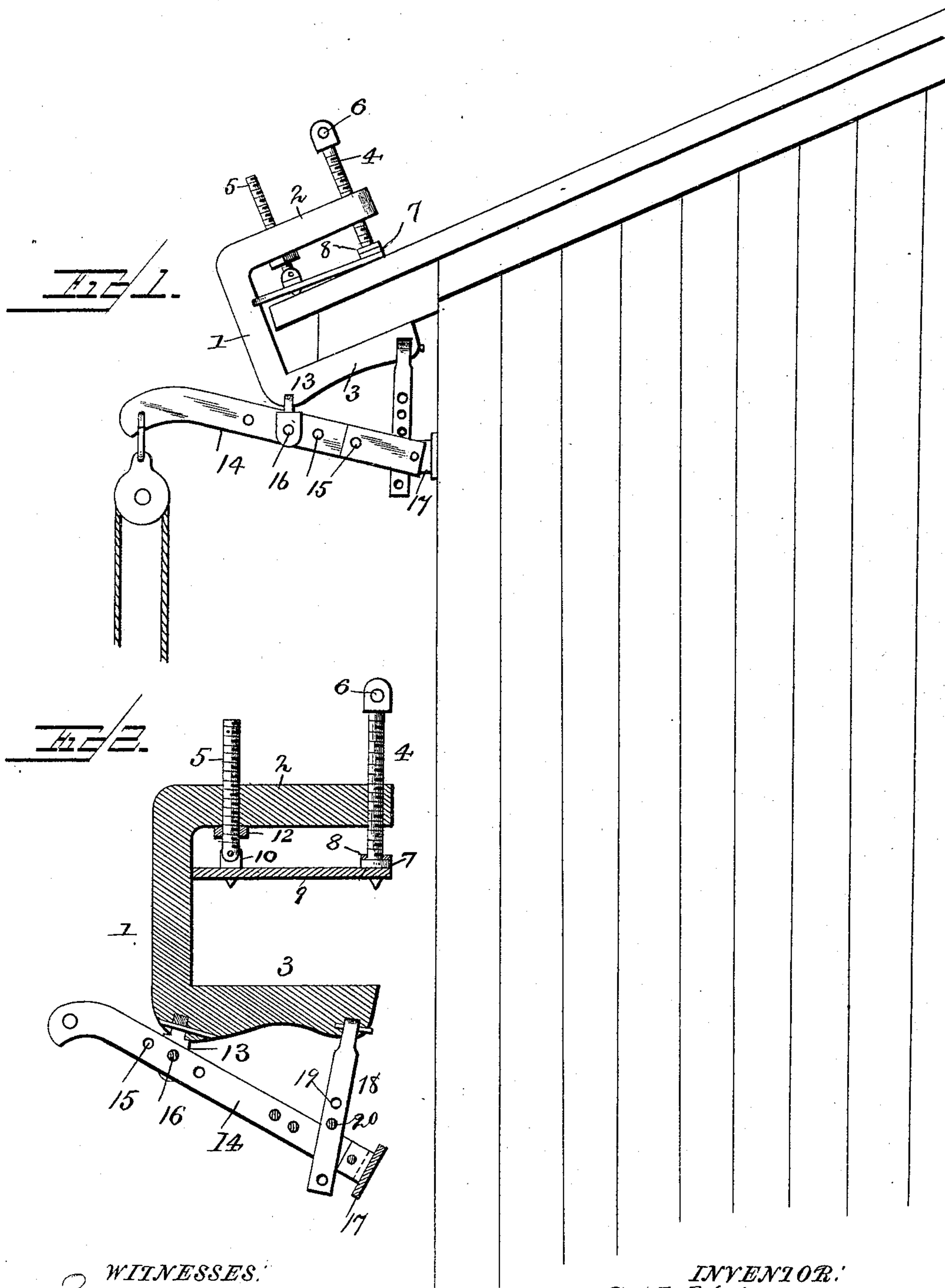


(No Model.)

C. HEINEMANN.
DEVICE FOR SUSPENDING SCAFFOLDING.

No. 491,885.

Patented Feb. 14, 1893.



WITNESSES:
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UNITED STATES PATENT OFFICE.

CARL HEINEMANN, OF HAMMOND, INDIANA.

DEVICE FOR SUSPENDING SCAFFOLDING.

SPECIFICATION forming part of Letters Patent No. 491,885, dated February 14, 1893.

Application filed July 8, 1892. Serial No. 439,353. (No model.)

To all whom it may concern:

Be it known that I, CARL HEINEMANN, a citizen of the United States, and a resident of Hammond, in the county of Lake and State of Indiana, have invented certain new and useful Improvements in Devices for Suspending Scaffolding; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

My invention relates to improvements in devices for suspending extension ladders from the eaves or cornices of buildings.

The invention is designed more particularly for the use of painters in painting the outside of houses and other buildings, and the object is to provide a simple and inexpensive clamp which can be readily applied to and detached from the eaves or cornices, without any liability of becoming accidentally disconnected, and to which the pulleys from which the ladder is suspended, may be attached and be held in a safe and secure manner.

The invention consists in the novel construction and combination of parts hereinafter fully described and claimed.

In the accompanying drawings—Figure 1 is a view of a portion of a gable roof showing my improved clamp applied thereto; Fig. 2 is a sectional view of the clamp detached.

In the said drawings, the reference numeral 1 denotes a metallic plate consisting of the central portion with two projecting arms 2 and 3 at right angles thereto. This plate should be of sufficient size and strength to sustain the weight to which they are to be subjected. One of the arms 2 is provided with a screw threaded hole or aperture through which passes a similarly threaded bolt 4, and also with an aperture for the passage of a threaded bolt 5, the bolt 4 being at the outer end thereof, and provided with a turning bar 6. This bolt at its inner or lower end is provided with a head 7, which engages with a perforated plate 8, secured to movable plate 9 intermediate of the arms 2 and 3. The other bolt 5, is pivoted to lugs 10, secured to the inner end of plate 9, and is provided with a nut 12. The inner end of plate 9 is recessed so as to engage with the central portion of plate 1, to prevent shifting.

Pivoted to the lower side of plate 1 is a lug 13, to which is pivoted a lever 14, provided with a series of holes 15, by which it may be adjustably connected with said lug by means of pin 16. To one end of this lever which is bifurcated, is provided a plate 17, designed to bear against the wall of the building, and in this bifurcation is also located the lower end of an arm 18, provided with a series of holes 19. A pin 20 passes through one of these holes above the lever so as to limit the upward movement of the latter.

The pulleys which support the ladders are secured to the outer end of the levers 14.

The operation will be readily understood. As seen in Fig. 1, the lower arm of plate 1, is held up against the underside of the eave and held securely thereto by means of the plate 9, which is provided with a series of teeth or prongs on its under side, and the bolts 4 and 5. The bolt 4 is tightly screwed down upon the outer end of plate 9, by means of the turning bar, while bolt 5, is screwed down by means of its nut bearing against the underside of the arm 2. The plate 17 also bears against the side of the house and tends to take some of the strain off the eave or cornice.

By means of the separate bolts 4 and 5 and the adjustable lever and depending arm, the device can be applied to cornices of different sizes and shapes.

Having thus described my invention, what I claim is:

In a device for suspending swinging ladders from the eaves or cornices of buildings, the combination of the bent plate, consisting of a central portion and two projecting arms, the intermediate movable plate, the screw bolts adapted to engage with said plate, the pivoted adjustable lever having a pivoted plate at one end, the depending arm pivoted to the lower arm of said bent plate and provided with a series of holes, and the pin adapted to pass through said holes and limit the upward movement of said lever, substantially as described.

In testimony that I claim the foregoing as my own I have hereunto affixed my signature in presence of two witnesses.

CARL HEINEMANN.

Witnesses:

HENRY KRAUSE,
A. B. SCHACHER.