

No. 769,076.

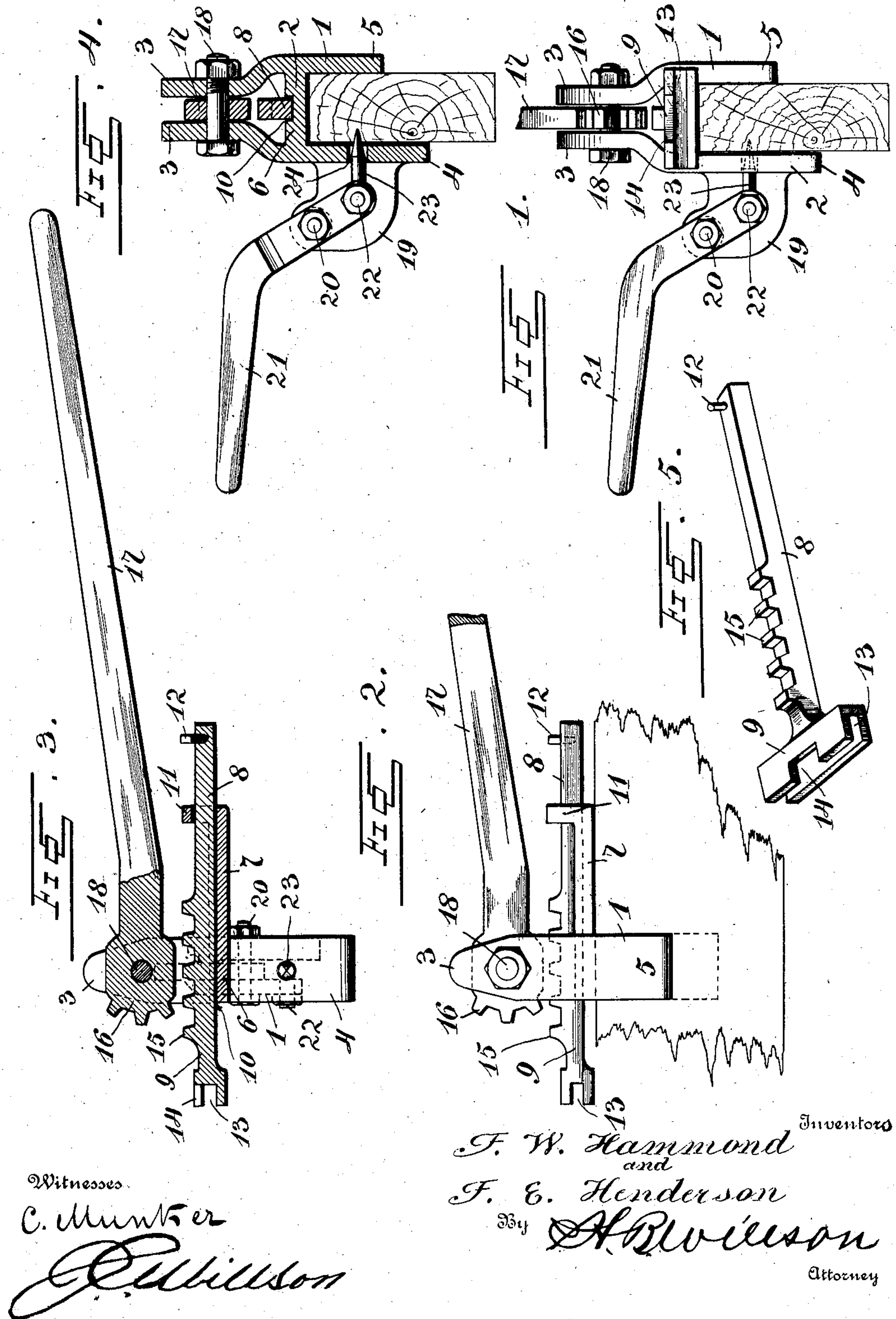
PATENTED AUG. 30, 1904.

F. W. HAMMOND & F. E. HENDERSON.

FLOOR CLAMP.

APPLICATION FILED MAR. 24, 1904.

NO MODEL.



Witnesses.

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UNITED STATES PATENT OFFICE.

FRANK W. HAMMOND AND FRANK E. HENDERSON, OF COMSTOCK,
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FLOOR-CLAMP.

SPECIFICATION forming part of Letters Patent No. 769,076, dated August 30, 1904.

Application filed March 24, 1904. Serial No. 199,826. (No model.)

To all whom it may concern:

Be it known that we, FRANK W. HAMMOND and FRANK E. HENDERSON, citizens of the United States, residing at Comstock, in the county of Custer and State of Nebraska, have invented certain new and useful Improvements in Floor-Clamps; and we do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to certain new and useful improvements in floor-clamps; and it consists of certain features of construction and combination of parts, as will be hereinafter described and claimed.

The object of the invention is to provide a simple, convenient, and effective device of this character by which the boards of floorings, sidings, and ceilings of a building may be closely joined, and, if desired, blind-nailed with ease and facility.

In the accompanying drawings, Figure 1 is a front elevation of the device. Fig. 2 is a side elevation. Fig. 3 is a vertical longitudinal section. Fig. 4 is a cross-section, and Fig. 5 is a detail of the grooved jaw.

1 in the drawings denotes the frame of the device, consisting, preferably, of a strap of sheet metal bent to form an arched portion 2 and upwardly-extending arms 3, the said arched portion comprising parallel legs 4 and 5 to straddle a sleeper or piece of studding and a transverse shelf or bridge plate 6 lying between and intermediately of said arms and legs. The whole of the frame may, however, be formed of a casting or constructed in any other suitable manner. The leg 4 is made longer than the leg 5 for a purpose hereinafter described. From the rear of the bridge-piece 6 projects an extension 7, which forms therewith a bed or table for the shank 8 of a clamping-jaw 9, which slides in a grooved or slotted guideway 10 formed in said table and through an upright slotted guide 11 at the rear end of the table. The forward movement of the shank is limited by a stop-screw 12 at the rear of the same, which engages the guide 11, and undue rearward movement is prevent-

ed by the jaw itself engaging the front edge of the bridge-plate 6. As shown, the jaw is formed with a transverse groove 13 and a slot 14 in the upper wall of the groove. This groove receives the tongue of the board to be adjusted, and the slot permits of the introduction of nails for "blind-nauling." On shank 8 are rack-teeth 15, which mesh with a toothed segment 16 on one end of an operating-lever 17, said lever being pivoted between the arms 3 on a bolt 18.

The long leg 4 of the frame has extending outwardly therefrom a vertical bracket-piece 19, to which is fulcrumed by a pivot bolt or pin 20 a lever 21, and to this lever is pivotally connected, as by a pin or bolt 22, a dog 23. This dog is adjustable in a slot 24 in the leg 4 and is sharpened to a point at its free end, forming a spur to penetrate the timber straddled by the legs 4 and 5 to fasten the frame thereto. By placing the bracket-piece 19 on the longer leg 4 a greater bearing is afforded for said dog and lever.

In operation the frame is set astride a sleeper or piece of studding, the dog 23 forced therein by the lever 21, thus clamping the frame thereto, and the jaw 9 engaged with the tongued side of the board and forced forward by the lever 17 to cause the grooved side of said board to tightly engage the tongued side of the board previously laid, and then the board is nailed down, after which the jaw 9 is retracted. The groove 13 and slot 14 in the jaw 9 permit blind-nauling at this stage, if desired.

From the foregoing description, taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion, and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention.

Having thus described our invention, what we claim, and desire to secure by Letters Patent, is—

A floor-clamp comprising a frame having an

arched portion and upward-extending arms, said arched portion forming legs, and a transverse shelf extending between the same, arms extending upwardly from said legs and above
5 said shelf, a supporting-plate extending rearwardly from the shelf and forming therewith a bed or table, a jaw guided by said bed or table and provided with rack-teeth, a lever pivotally connected to the arms and provided
10 with a toothed segment to engage said teeth, a bracket projecting from one of the legs, a

lever fulcrumed to said bracket, and a dog connected to said lever and operating in an opening in the leg, substantially as described.

In testimony whereof we have hereunto set
our hands in presence of two subscribing witnesses. 15

FRANK W. HAMMOND.
FRANK E. HENDERSON.

Witnesses:

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