

No. 665,945.

Patented Jan. 15, 1901.

C. E. WATERS.

FLOOR SET.

(Application filed Mar. 26, 1900.)

(No Model.)

Fig. 1.

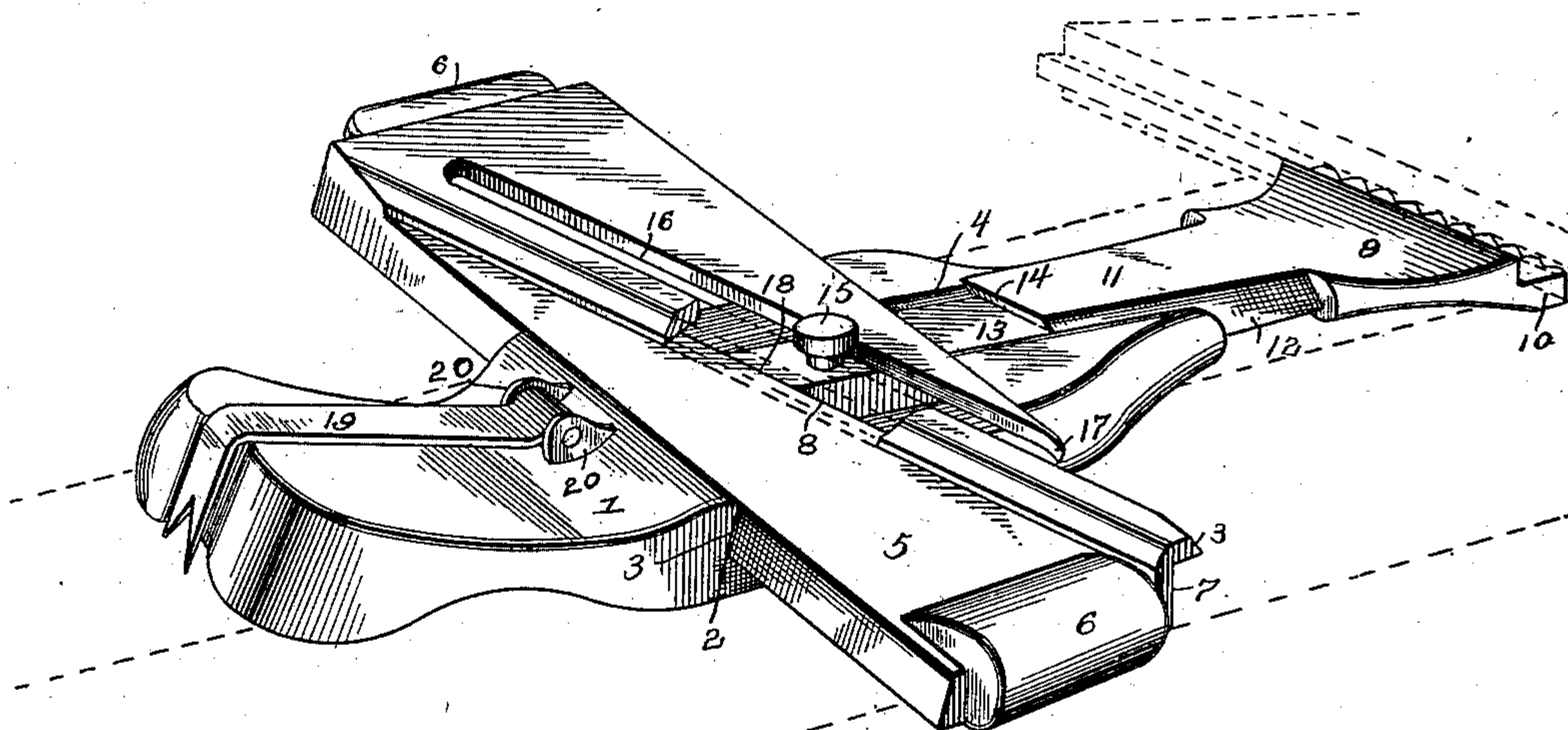
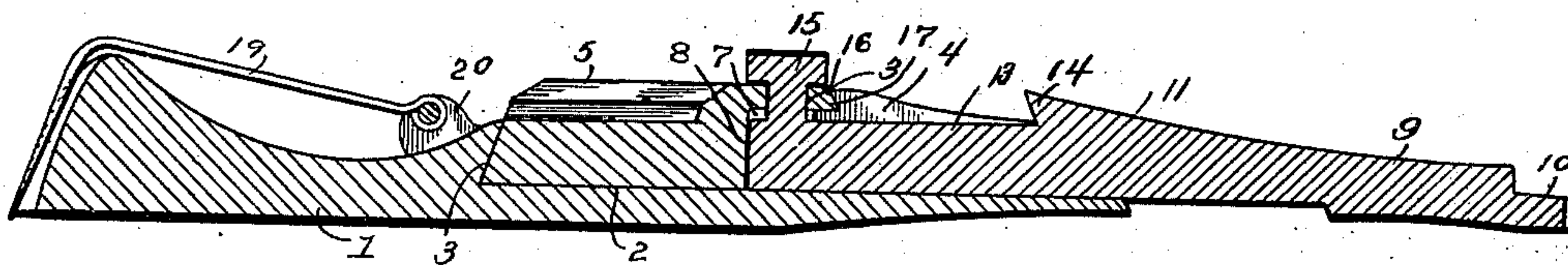


Fig. 2



Witnesses

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CORNELIUS E. WATERS, OF MUSKEGON, MICHIGAN.

FLOOR-SET.

SPECIFICATION forming part of Letters Patent No. 665,945, dated January 15, 1901.

Application filed March 26, 1900. Serial No. 10,282. (No model.)

To all whom it may concern:

Be it known that I, CORNELIUS E. WATERS, a citizen of the United States, residing at Muskegon, in the county of Muskegon and State of Michigan, have invented a new and useful Floor-Set, of which the following is a specification.

This invention relates to floor-sets, and has for its object to provide an improved device of this character which is designed to be conveniently anchored to a rafter or to the first section of a double floor and engaged with the board to be secured, so as to force the latter firmly against the boards already laid and to hold said board while it is being nailed in place. It is furthermore designed to provide improved means for conveniently actuating the movable part of the device into engagement with the board and for obtaining an increased pressure upon the latter and at the same time permitting of the ready disengagement of the device.

With these and other objects in view the present invention consists in the combination and arrangement of parts, as will be hereinafter more fully described, shown in the accompanying drawings, and particularly pointed out in the appended claims, it being understood that changes in the form, proportion, size, and minor details may be made within the scope of the claims without departing from the spirit or sacrificing any of the advantages of the invention.

In the drawings, Figure 1 is a perspective view of a floor-set constructed and arranged in accordance with the present invention. Fig. 2 is a longitudinal sectional view thereof.

Corresponding parts in both figures of the accompanying drawings are designated by like characters of reference.

Referring to the drawings, 1 designates the body of the device, which is flat upon its under side, so as to rest evenly upon the rafter or the first section of flooring in a double floor. Located substantially midway between the opposite ends of the body and transversely across the upper face thereof is a comparatively wide groove 2, each longitudinal edge of which is undercut, as shown at 3, so as to form a dovetailed groove, which is open at opposite ends. Leading forwardly from the middle of the front edge of the transverse

groove is a longitudinal groove 4, which communicates with the former groove and opens outwardly through the forward end of the body.

Mounted to slide in the transverse groove is a substantially rectangular block 5, which normally projects at opposite sides of the body and is provided at each end with a driving-head 6, to be struck with a hammer or other suitable implement, and thereby forced transversely of the body. The front under side of this block is cut away or channeled, as at 7, so as to form an inclined or beveled shoulder 8, that extends diagonally of the block and is designed to force outwardly the movable part of the device.

Located at the forward end of the body is a board-engaging head 9, that has a downwardly-offset forwardly-projecting shoulder 10, that is toothed or serrated upon its outer end to engage the edge of the body of the board to be laid at one side of the tongue thereof. Extending rearwardly from this head is a reduced stem or shank 11, which is provided with inwardly and upwardly beveled longitudinal edges 12 to slidably engage the similarly-inclined edges of the longitudinal groove 4. The rear portion of the stem or shank is reduced, as at 13, to fit beneath the channeled portion of the slidable block and to form an upstanding shoulder 14 to abut against the adjacent front edge of the block and limit the inward movement of the head. Rising from the upper face of the rear portion of the stem or shank is a headed pin 15, which is slidably received in an inclined slot 16, formed in the channeled portion of the slidable block, slightly in advance of and parallel with the beveled or inclined shoulder 8. One end of this groove opens outwardly through the forward edge of the block, so as to receive the pin 15 when the block is first inserted into the transverse groove, and afterward the comparatively thin tongue 17, formed at the front edge of the slot, is bent inwardly, as shown in Fig. 1, so as to form a stop to engage the pin and prevent lateral displacement of the block from the body. It will of course be understood that the head of the pin is designed to overlap the opposite longitudinal edges of the slot 16, so as to aid in retaining the block to

its place. The rear extremity of the shank or stem is beveled or inclined transversely, as indicated at 18, so as to slidably engage the similarly-inclined shoulder 8 of the slidable block.

The rear end of the body is provided with an anchor device comprising a pronged hook 19, that is pivotally or hingedly mounted between a pair of upstanding bearing-ears 20, so that the prongs or bill end of the hook may lie beyond the rear end of the body, to be forced into a rafter or other support.

In the operation of the device the board-engaging head is fitted to the board to be secured and the foot of the operator is placed upon the anchor device to force the prongs thereof into the rafter or other support, after which one of the heads of the slidable block or wedge is struck with a hammer or other suitable implement to force the wedge transversely across the beveled rear end of the shank or stem, thereby to force the head outwardly, and thereby set the board firmly against that portion of the flooring that has already been laid. The device may be readily released by striking the opposite end of the wedge, as will be readily understood.

What is claimed is—

1. A floor-set, comprising a body, a longitudinally-slidable board-engaging head, having a pin, and a transversely-slidable operating-block, having an inclined slot receiving the pin.

2. A floor-set, comprising a body, a longitudinally-slidable board-engaging head, having a pin, and a transversely-slidable operating wedge-shaped block, having a longitudinally-disposed slot receiving the pin.

3. A floor-set, comprising a body, a channeled operating-wedge slidable transversely of the body, and provided with an inclined slot in the channeled portion thereof, and a longitudinally-slidable board-engaging head, having its inner end portion received beneath the channeled portion of the wedge, and pro-

vided with a pin slidably received within the slot of the wedge.

4. A floor-set, comprising a body, an operating-wedge slidable transversely across the body, and provided with an inclined slot that opens outwardly through one edge of the wedge, and a longitudinally-slidable board-engaging head having a pin slidably received within the slot, one wall of the latter being bent or deflected inwardly to form a stop partially closing the open end of the slot.

5. A floor-set, comprising a body, having intersecting transverse and longitudinal grooves, a block slidably mounted in the transverse groove, and having its opposite ends provided with heads, the forward portion thereof being channeled upon its under side to form an inclined or wedge-shaped shoulder, and a slot formed in the channeled portion and arranged parallel with the wedge-shaped shoulder, and a board-engaging head, having a shank or stem slidably mounted in the longitudinal groove, the rear portion thereof being reduced to fit beneath the channeled portion of the slidable block, and to form an upstanding stop-shoulder for engagement with the adjacent edge of the block, an upstanding pin slidably received within the slot in the block, and the inner or rear end of the stem being beveled to slidably engage the wedge-shaped shoulder of the block.

6. A floor-set, comprising a body, a longitudinally-slidable board-engaging head, having a pin, and a transversely-slidable operating-block, having a longitudinally-disposed slot receiving the pin, and which is open at one end to permit of the entrance and removal of the pin.

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

CORNELIUS E. WATERS.

Witnesses:

L. EYKE,

DANIEL JAMES.