

No. 693,783.

Patented Feb. 18, 1902.

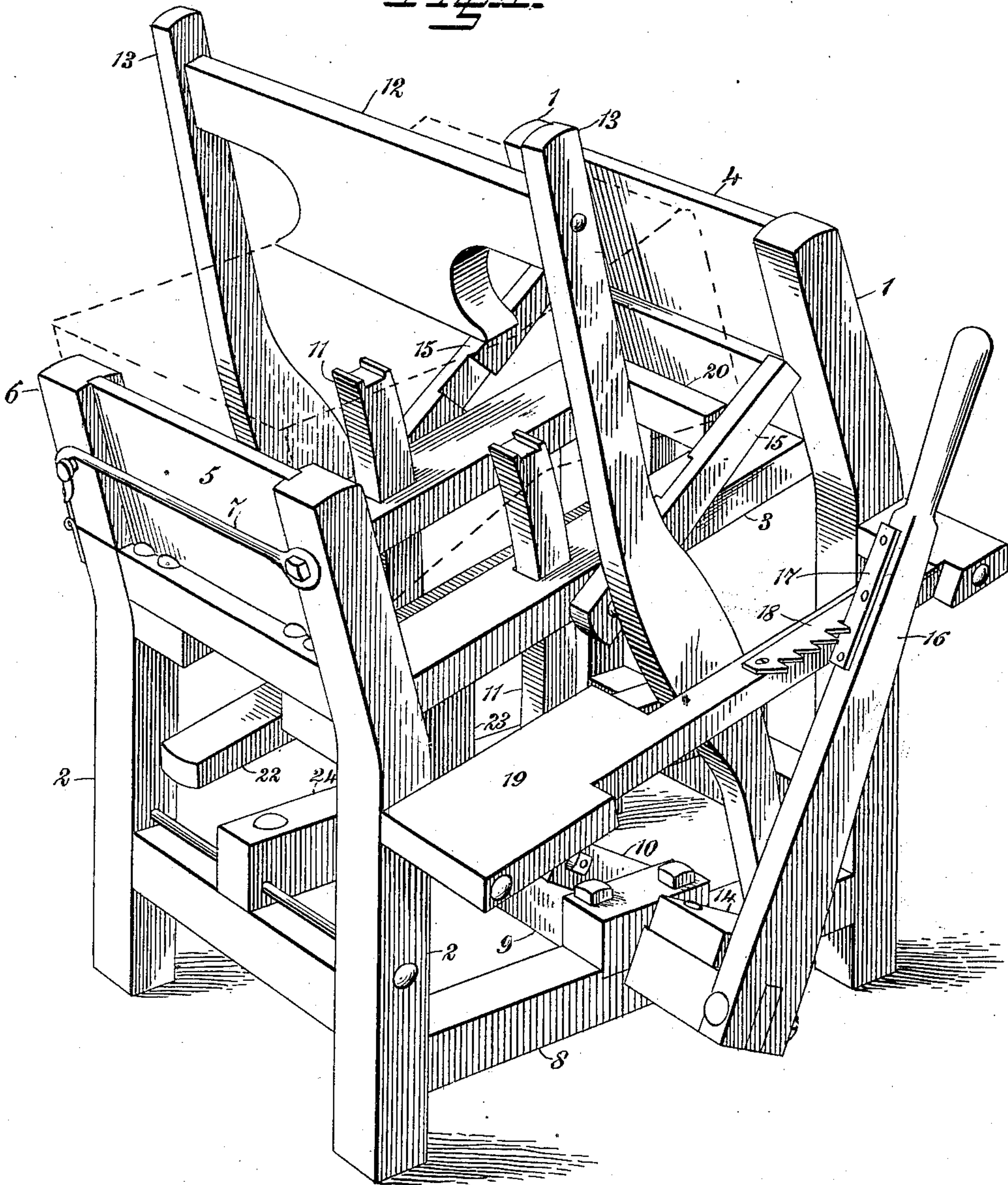
F. CAMPBELL.  
SHINGLE PACKER.

(Application filed Oct. 25, 1901.)

(No Model.)

2 Sheets—Sheet 1.

*Fig. 1.*



WITNESSES:

*James F. Duhamel*  
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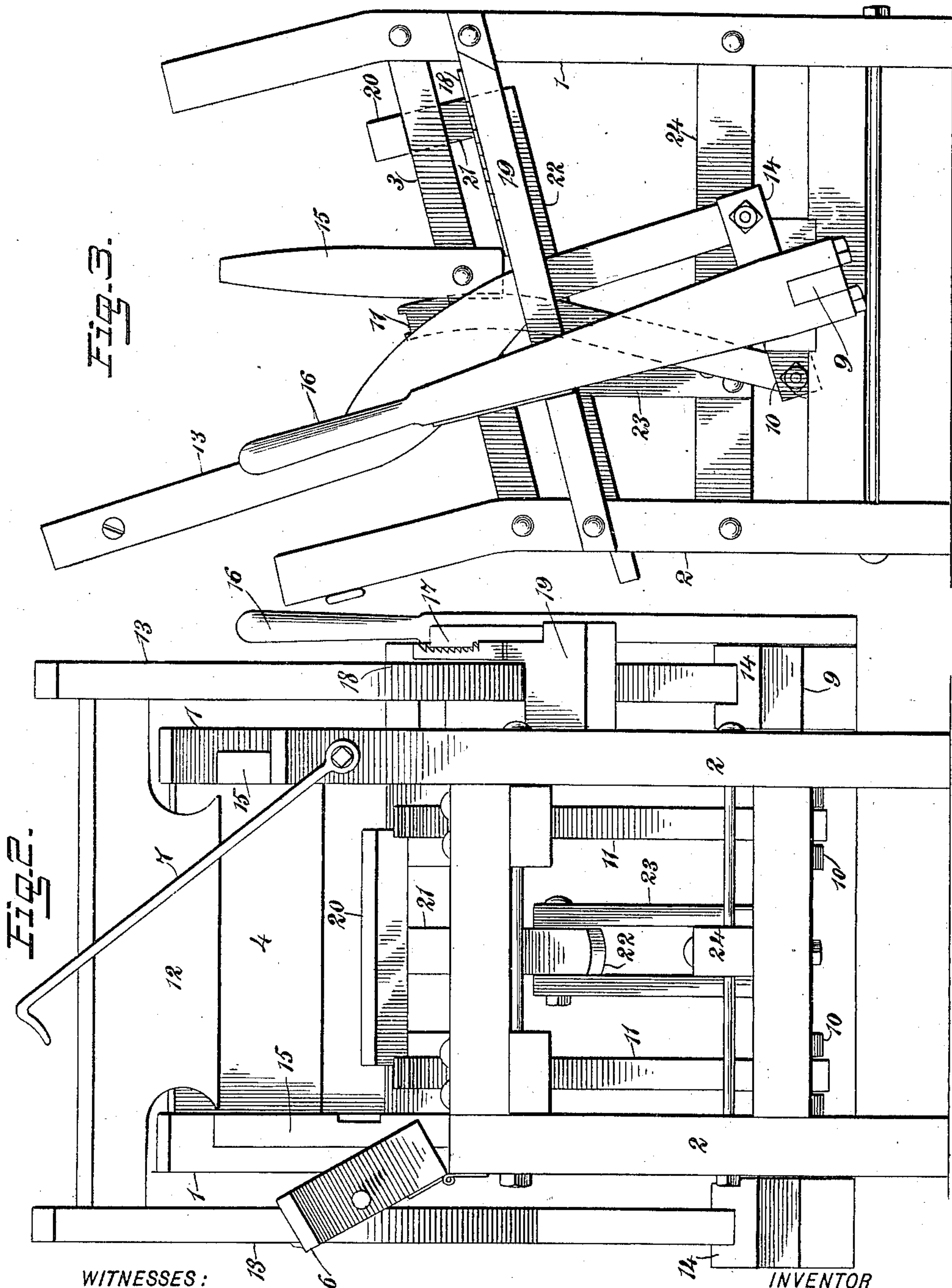
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# UNITED STATES PATENT OFFICE.

FRANK CAMPBELL, OF HAYNESVILLE, MAINE, ASSIGNOR OF ONE-THIRD TO  
FRANK A. PEABODY, OF HOULTON, MAINE.

## SHINGLE-PACKER.

SPECIFICATION forming part of Letters Patent No. 693,783, dated February 18, 1902.

Application filed October 25, 1901. Serial No. 79,941. (No model.)

*To all whom it may concern:*

Be it known that I, FRANK CAMPBELL, a citizen of the United States, and a resident of Haynesville, in the county of Aroostook and State of Maine, have invented a new and Improved Shingle-Packer, of which the following is a full, clear, and exact description.

This invention relates to improvements in machines for packing shingles in bundles; and the object is to provide a machine of simple construction by means of which the shingles may be rapidly packed or bundled preparatory to tying the same.

I will describe a shingle-packer embodying my invention and then point out the novel features in the appended claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a perspective view of a shingle-packer embodying my invention. Fig. 2 is an end view thereof, and Fig. 3 is a side elevation.

The frame of the machine comprises the upper corner-posts 1 and the lower corner-posts 2. If found desirable, the frame may be provided with castor wheels or trucks, so that it may be easily moved from one place to another. Extended between the upper and lower corner-posts are the bed-rails 3, which are inclined downward and forward, so as to permit of the easy removal of a bundle of shingles. The posts 1 are extended above the bed-rails, and these upward extensions are connected by a headboard 4, while a tail-board 5 extends between the upwardly-extended portions of the corner-posts 2. These portions of the corner-posts above the bed-rails are inclined relatively to their lower portions—that is, they are arranged at right angles to the bed-rails 3, so as to bring the head and tail boards in line with the butts of the shingles. The tail-board 5 is designed to be removed when a bundle of shingles is to be removed from the machine. Therefore one of the posts 2 has its upper section 6 hinged to the lower section, and this section 6 is provided with a channel to receive one end of the board 5, while the other end is seated in a channel formed in the up-

per extension of the opposite post. The section 6 is held in position by means, as here shown, of a hook 7, pivoted to one of the posts 2 and engaging with a pin on said swinging section 6.

Mounted in bearings on the side rails 8 of the frame is a rock-shaft 9, having crank-arms 10, from which presser-bars 11 extend upward through openings in the bed-rails 3, and the upper ends of these bars 11 are recessed or notched to receive the usual wooden binder, which is notched at its ends to receive a binding cord or strap. The presser-bars 11 are designed to engage against the binder on the under side of the bundle of shingles, and for engaging against the upper side of the bundle I employ an upper presser-bar 12, connected to arms 13, which extend downward and engage with crank members 14 on the rock-shaft 9 and extended in an opposite direction to the cranks 10. Therefore when the rock-shaft is operated the presser-bars 11 will be moved upward, while the presser 12 is moved downward.

Mounted to swing on the rails 3 are side guides 15, and attached to one end of the rock-shaft is an operating-lever 16, having a plate 17, designed to engage with the teeth of a rack 18, secured to a side rail 19 on the machine-frame.

The bundle-ejector consists of a cross-head 20, mounted on the upwardly-extended arm 21 of a lever 22, mounted in the machine-frame. This lever 22 is pivoted to a standard 23, mounted on a center beam 24.

In operation after placing the binder in the notches formed in the upper ends of the presser-bars 11 the shingles are to be arranged in layers in the usual manner, with the butts of course extending outward. At this time the guides 15 are to be raised to vertical position, as indicated in Fig. 3. After completing the several layers of shingles and placing the top binder in position the presser-bar 12 is to be swung forward over the center on said binder, and then by operating the rock-shaft 9 by means of the lever 16 the pressing devices will be operated to force the shingles at the center of the bundle closely together. Before this is done, however, the side guides 15 are to be swung downward, as indicated



in Fig. 1. After the pressing the tying cord or strap is to be secured at its ends at each side of the binder in any desired manner. After such tying the lever 16 is to be released from the rack 18, permitting the presser-bar 12 to be swung forward and the presser-bar 11 to be moved downward upon rocking the shaft 9. Then by releasing the section 6 of the corner-post and removing the tail-board the bundle of shingles may be raised, so as to slide outward, by a downward pressure on the forward end of the lever 22, which, of course, will cause the cross-head to move upward against the under side of the bundle of shingles.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. A shingle-packer comprising a frame, having inclined bed-rails, upper corner-posts having portions extended above the bed-rails and at right angles thereto, a headboard attached to said upward extensions, lower corner-posts having portions extended above the bed-rails and at right angles thereto, the upward extension of one lower post being mounted to swing, a footboard removably held between the upward extensions of the lower post, means for locking the swinging portion of the post, an upper presser-bar, a lower presser-bar, and means for operating said bars, substantially as specified.

2. A shingle-packer comprising a frame having inclined bed-rails, upper corner-posts having portions extended above the bed-rails and at right angles thereto, a headboard attached to said upward extensions, lower corner-posts having portions extended above the bed-rails and at right angles thereto, the upward extension of one lower post being mounted to swing, a footboard removably

held between the upward extensions of the lower post, means for locking the swinging portion of the post, an upper presser-bar, a lower presser-bar, means for operating said bars, and an ejector for moving packed shingles from the packer, substantially as specified.

3. A shingle-packer, comprising a frame, inclined bed-rails in said frame, a headboard extended above said rails, a removable footboard, a rock-shaft mounted in the frame and having oppositely-extended crank portions, presser-bars connected to crank portions of the shaft and movable through openings in the bed-rails, an upper presser-bar, arms extended from said upper presser-bar to connection with others of said crank-portions and arranged to swing toward the outlet end of the packer, and an operating-lever connected with the rock-shaft, substantially as specified.

4. A shingle-packer, comprising a frame, inclined bed-rails in the upper portion of said frame, a headboard, a removable footboard, side guides mounted to swing on the bed-rails, lower presser-bars, an upper presser-bar, and means for operating the upper and lower presser-bars simultaneously in opposite directions, substantially as specified.

5. A shingle-packer, comprising a frame, inclined bed-rails in said frame, upper and lower pressing-bars, and an ejector comprising a cross-head and a lever on which the cross-head is carried, substantially as specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

FRANK CAMPBELL.

Witnesses:

JOHN C. MCINTYRE,  
CHARLES A. EATON.