

(No Model.)

W. GARDNER.

BALING PRESS.

No. 331,049.

Patented Nov. 24, 1885.

Fig. 1

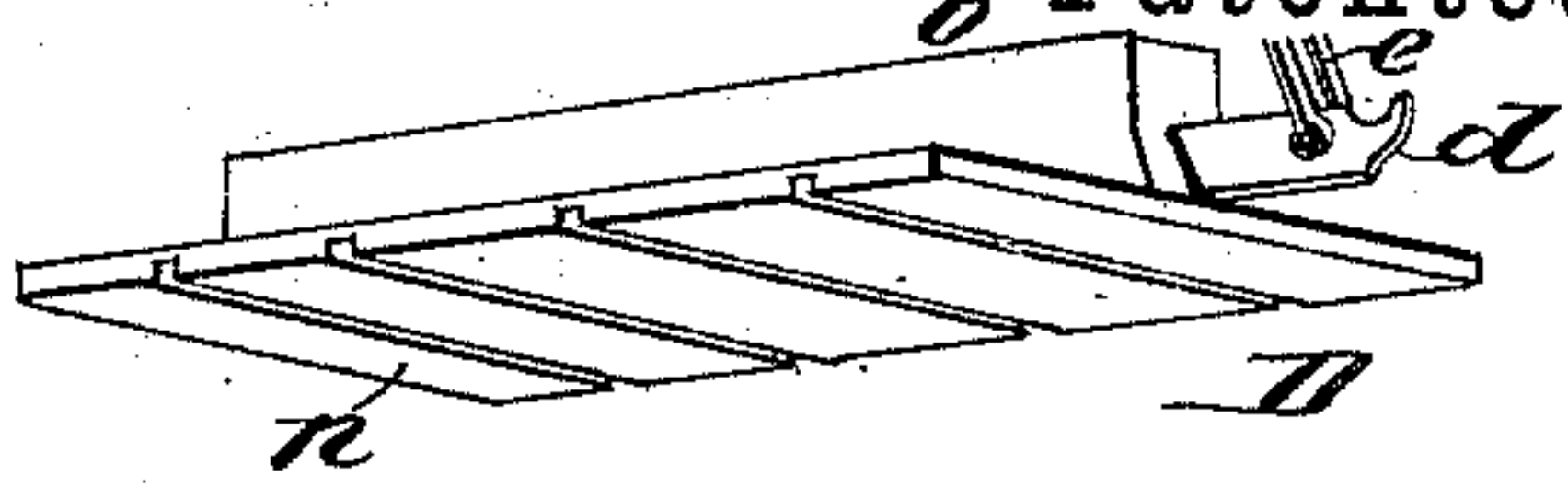


Fig. 2.

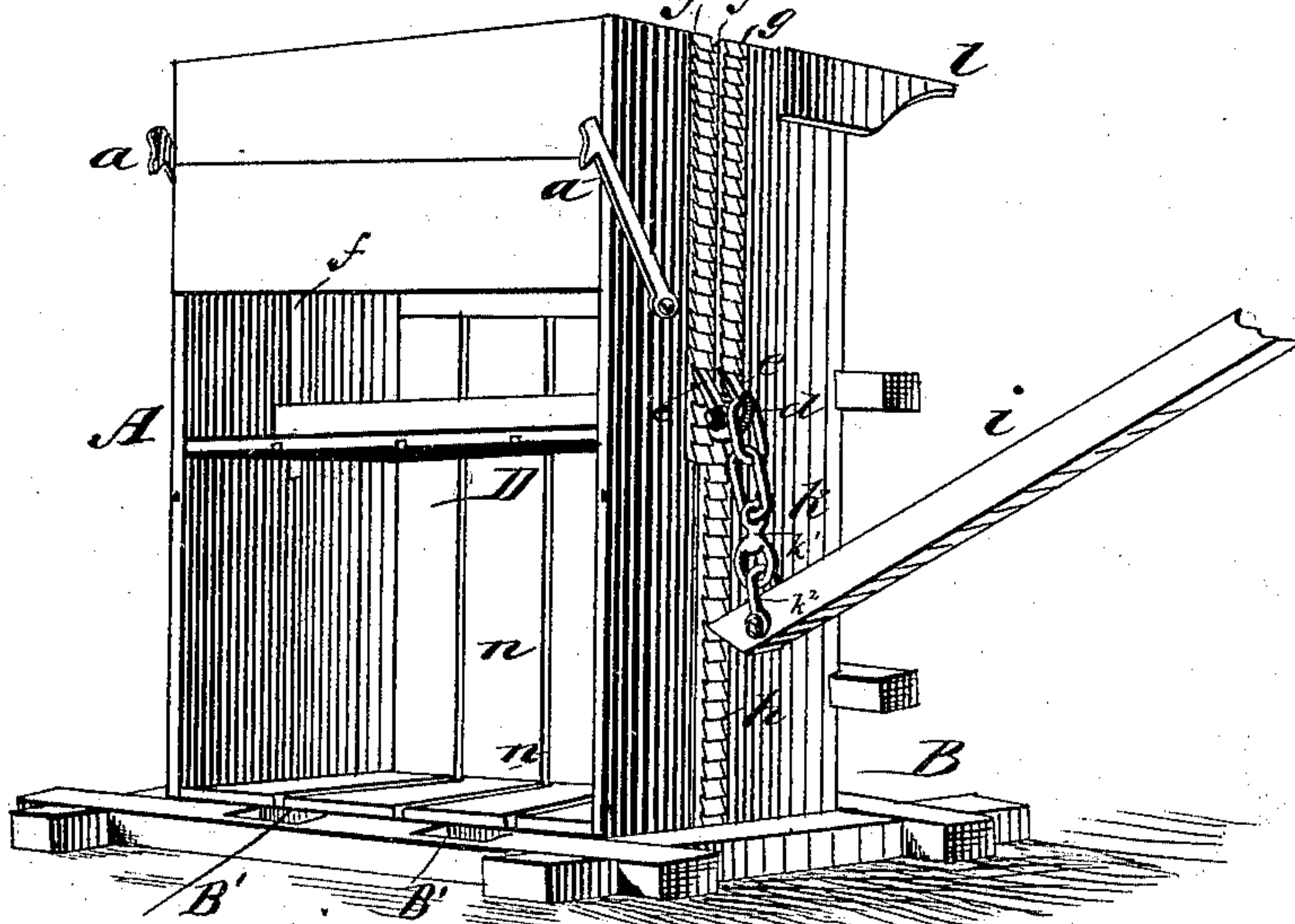


Fig. 3.

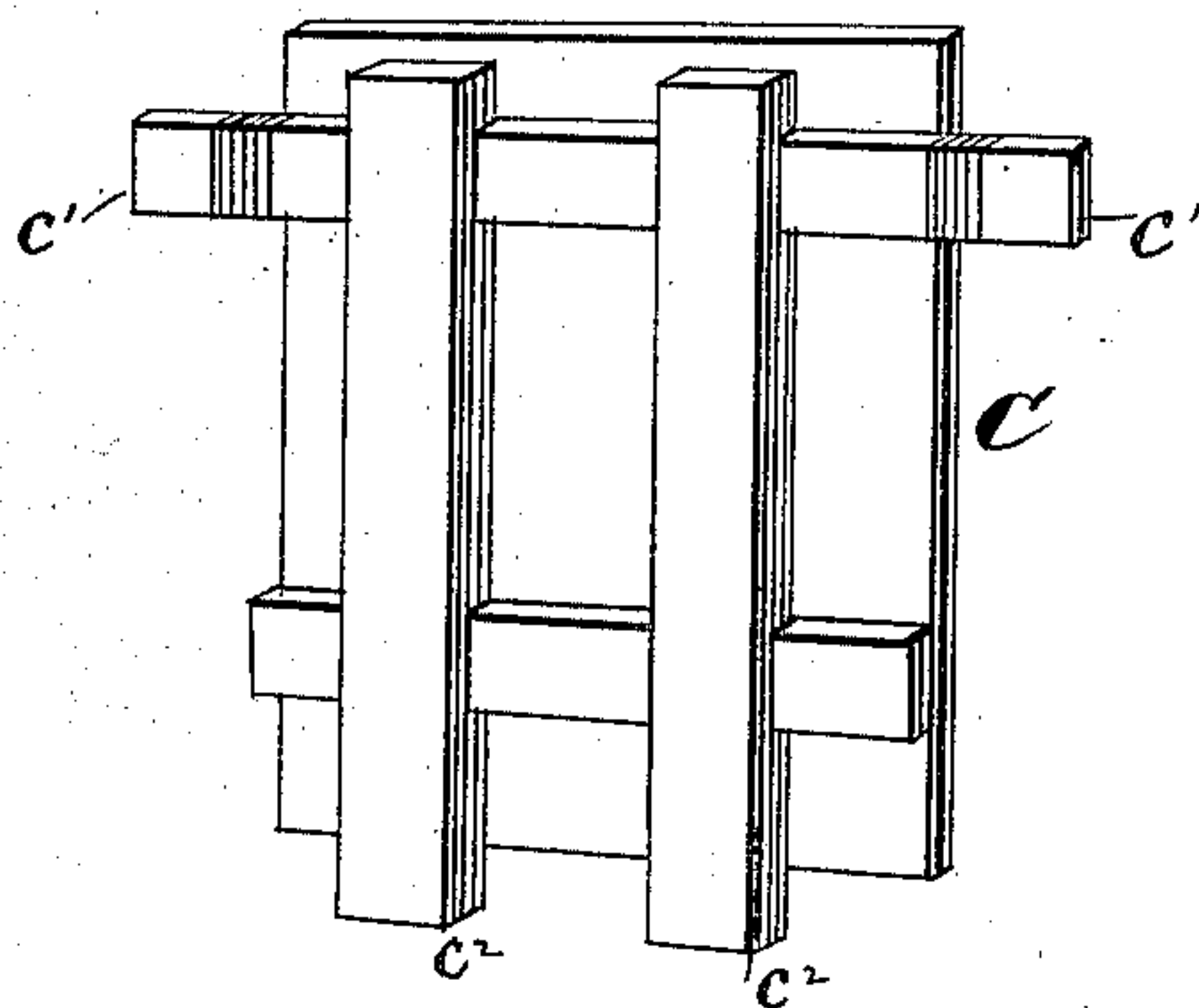


Fig. 4

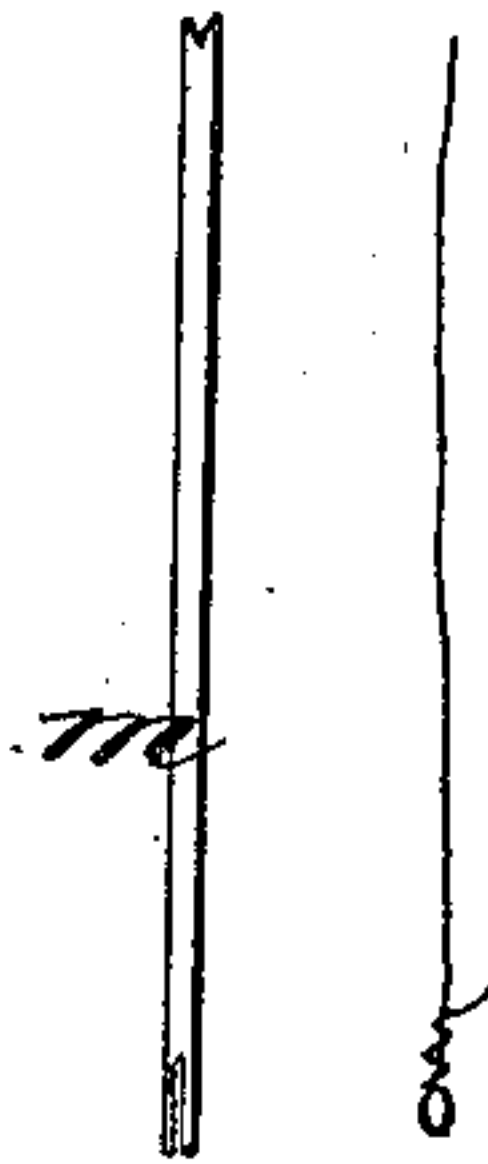
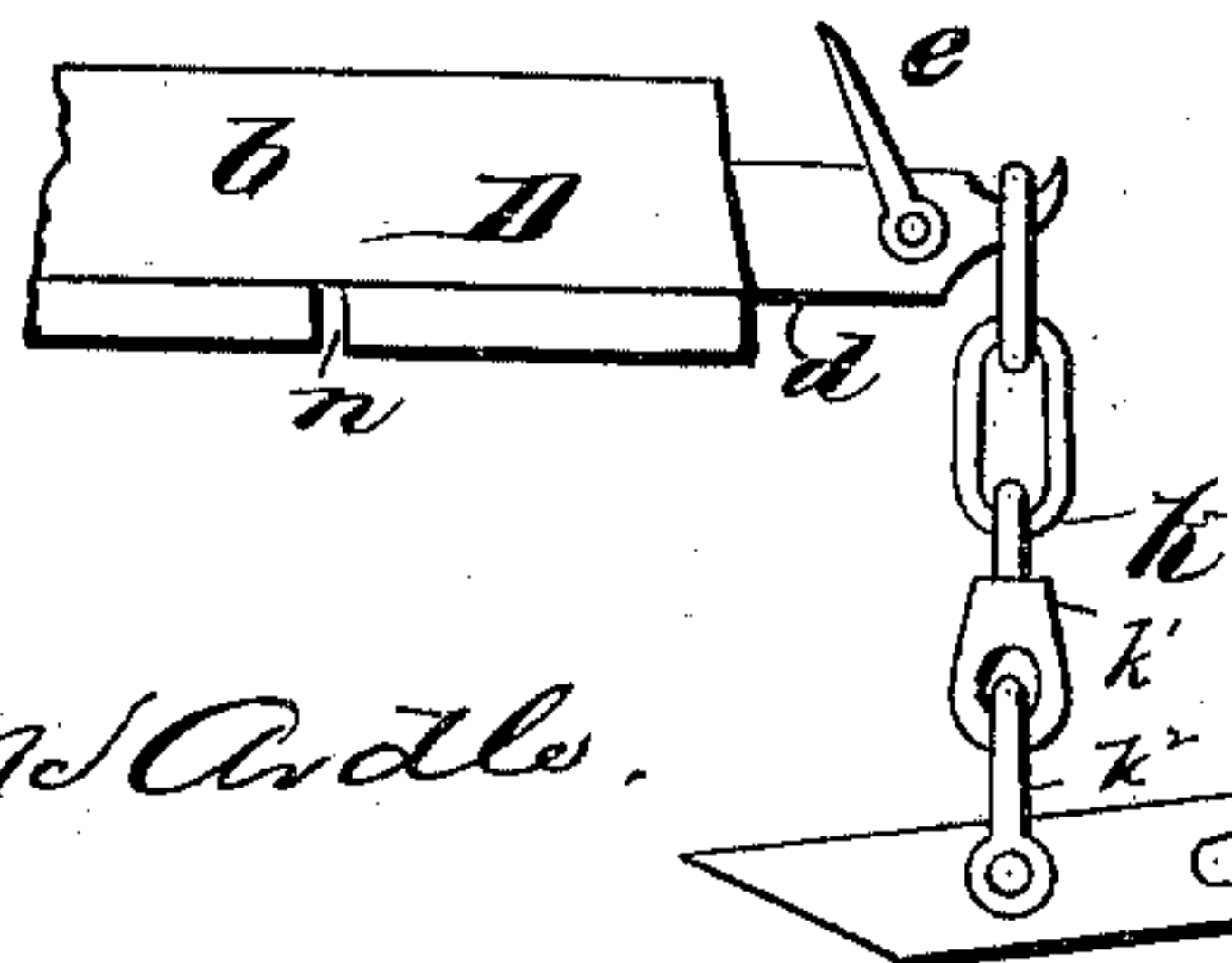


Fig. 5.



WITNESSES:

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WILSON GARDNER, OF WASHINGTON COURT-HOUSE, OHIO.

BALING-PRESS.

SPECIFICATION forming part of Letters Patent No. 331,049, dated November 24, 1885.

Application filed September 12, 1885. Serial No. 176,917. (No model.)

To all whom it may concern:

Be it known that I, WILSON GARDNER, of Washington Court-House, in the county of Fayette and State of Ohio, have invented a new and Improved Baling-Press, of which the following is a full, clear, and exact description.

The object of my invention is to provide a convenient and reliable hand-press for baling hay and straw; and to that end the invention consists in the construction and arrangement hereinafter specified.

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

Figure 1 is a perspective view of the follower. Fig. 2 is a front perspective view of the press with the door removed. Fig. 3 shows the door. Fig. 4 shows the needle used for wiring the bales; and Fig. 5 is a detail view showing the manner of connecting the levers to the follower.

The box or bale-chamber A, of suitable size, and made of suitable material, is attached upon a supporting-base, B, that gives broad support. The top of the chamber is open, and there is also an opening at the front that is to be closed while the bale is being formed by a door, C, which will be held up by latches a. The door C has a transverse cleat, c', the ends of which project beyond the sides of the door for the latches a to engage, and vertical cleats c² have their lower ends projecting below the lower end of the door to enter slots B' in the base. The follower D is of a size for fitting the chamber snugly, and is made of thin material, strengthened by a back strip, b. In the ends of strip b are inserted metal bars that form projecting arms d, having hooked-shaped ends, and on opposite sides of these arms pawls or dogs e are hung.

The box A is slotted in its two ends at f, from the top downward a suitable distance, so as to receive the arms d of the follower, and on the outside of the box, at both sides of the slots, are ratchet-bars g, which, in the

operation of the press, are engaged by dogs e, so as to prevent rise of the follower. From the bottom of each slot f a single ratchet-bar, h, extends downward for use as a fulcrum for the lever.

In the bottom and sides of box A, and also in the bottom of the follower, are grooves n, for receiving the binding-wires.

The levers i, of which one is shown, are bars having their ends beveled to an edge for engaging ratchets h, and are provided with chain-links k near their ends. The chain-links k are connected by a swivel-joint, k', to a U-shaped clevis, k², that is pivoted to the end of the lever.

On box A are arms l, for supporting the follower while the charge is being put in the press.

In operating the press the hay or straw is put in at the top of the chamber until it is filled, or nearly so. The follower is then put in on the charge, with the arms d in the slots f, and the chain-links k of the levers connected on the ends of the arms. A fulcrum is then taken, with the ends of the levers on ratchets h, the follower brought down by pressing down the outer ends of the levers as far as possible, the fulcrum being shifted down from time to time until the hay is sufficiently compressed. Then the door is removed, and the needle m, Fig. 4, is used to pass the wire through the grooves n in the bottom and sides of the box and bottom of the follower, and the bale thus bound, after which the follower can be raised and the bale taken out.

This press occupies but little space, and with it hay and straw can be readily bound into bales less expensively than with a power-press.

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

1. The combination, with the box A, having the slots f, the racks g g on opposite sides thereof, and the rack h below and in vertical alignment with the slots, of the follower D, having hooked arms d, provided with pawls on their opposite sides to sepa-

ately engage the racks g , and the levers i , beveled at their ends to engage the rack h , and the link-connection k k' k^2 , between the lever and the hooked arms d , substantially as set forth.

5 2. The combination, with the follower of a baling-press, provided with hooked arms d ,

of the lever i , chain-links k , swivel k' , and clevis k^2 , pivoted to the end of the lever, substantially as set forth.

WILSON GARDNER.

Witnesses:

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H. M. DAUGHERTY.