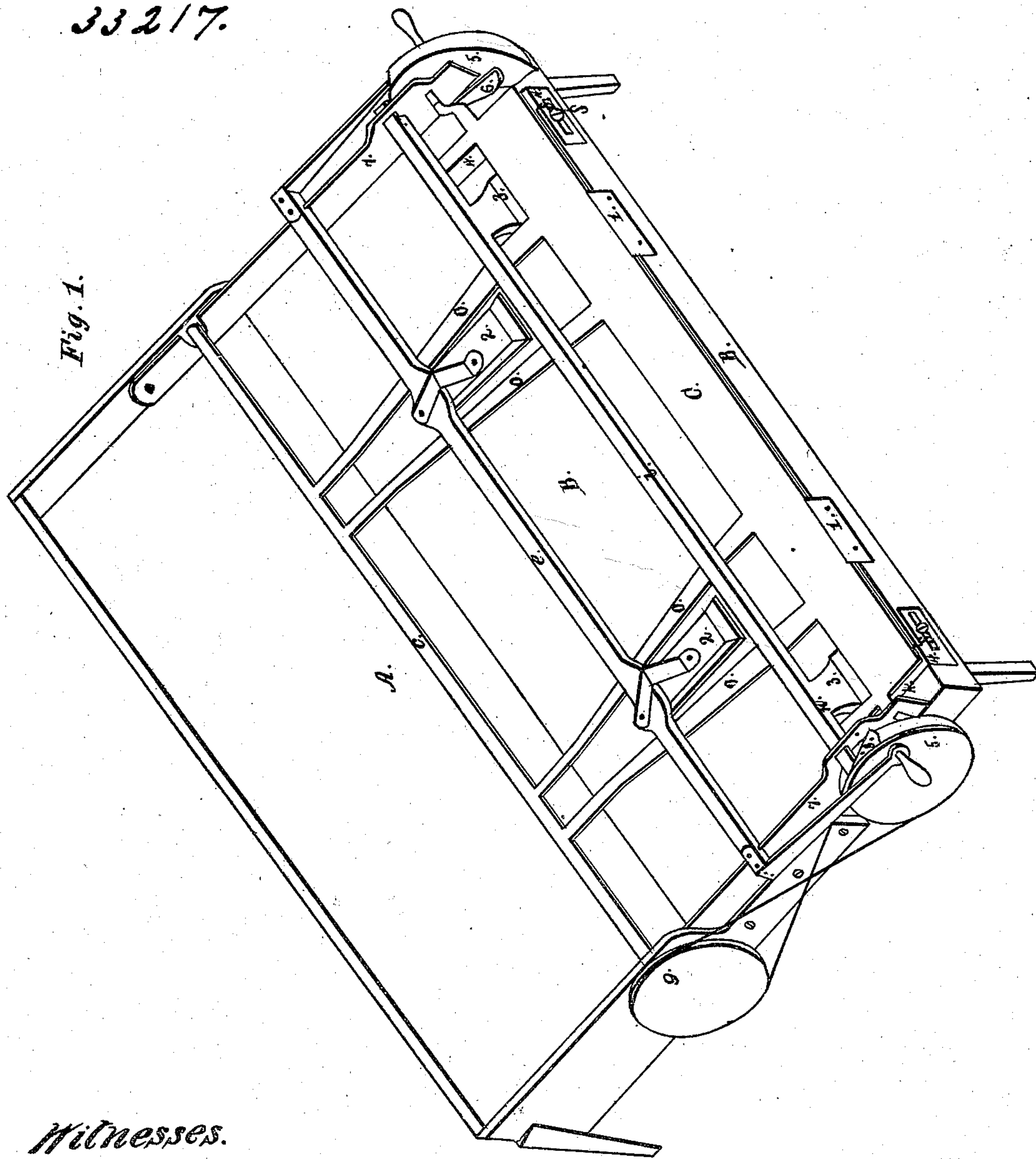


O. Tallcott. Sheet 1. 2 Sheets.
Feeding Paper to Printg Press
No 33217.
Patented Sept. 3. 1861.



Witnesses.
Symon A. Budlong
E. B. Jarrett

Inventor.
Orlando Tallcott

O. Tallcott. *Sheet 2. 2. Sheets.*

Feeding Paper to Print'g Press.

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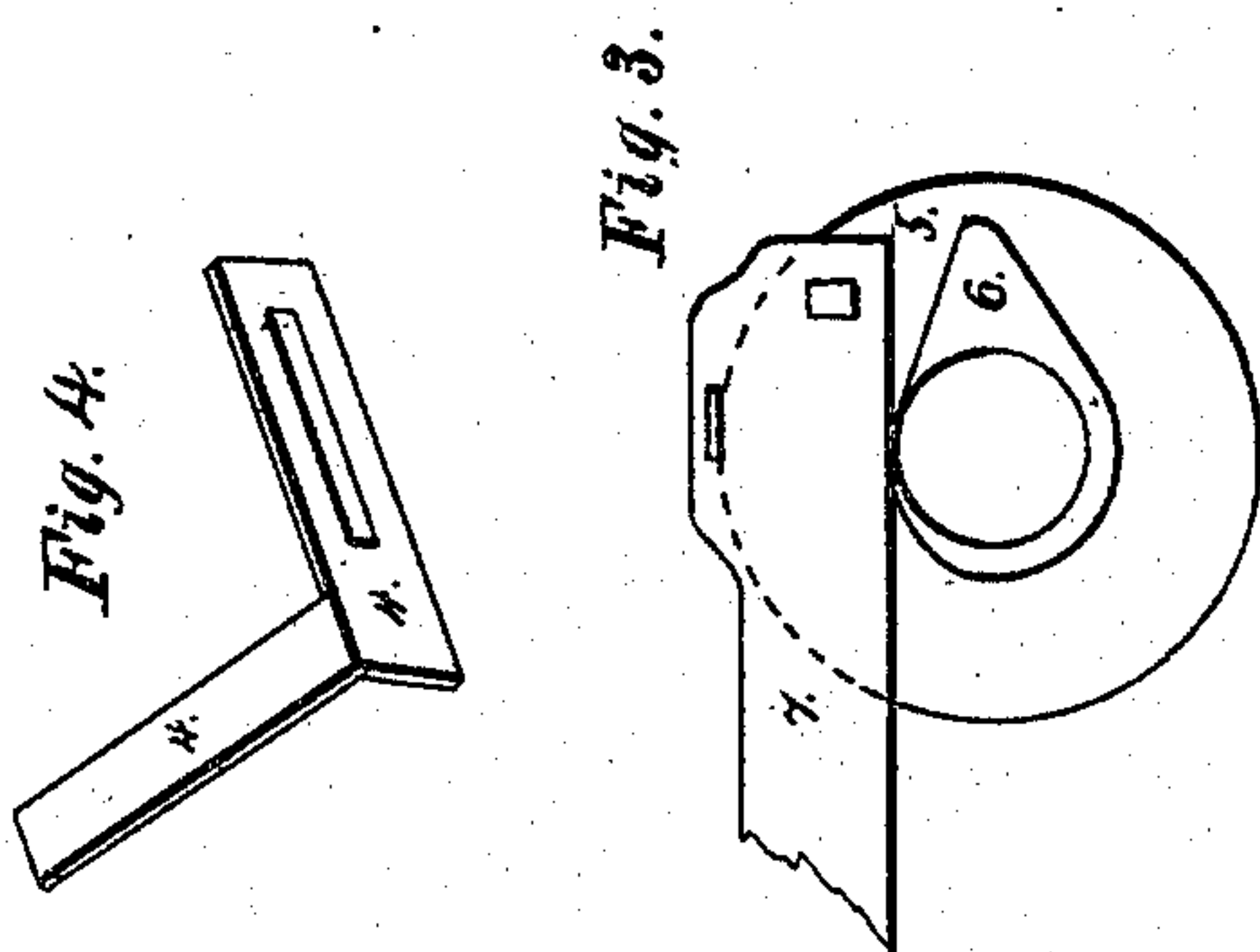
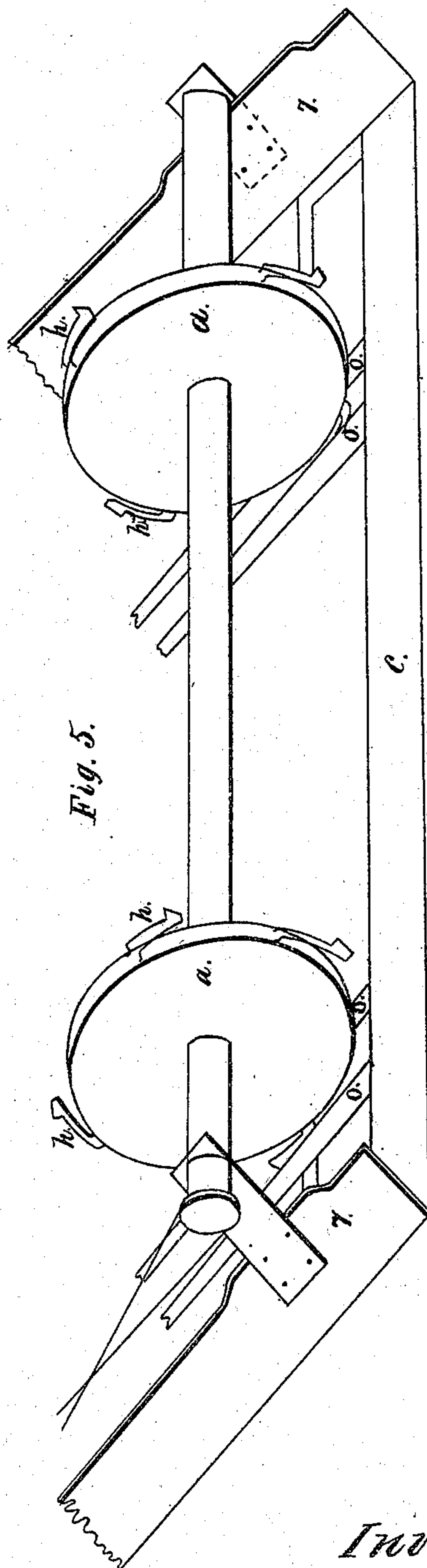
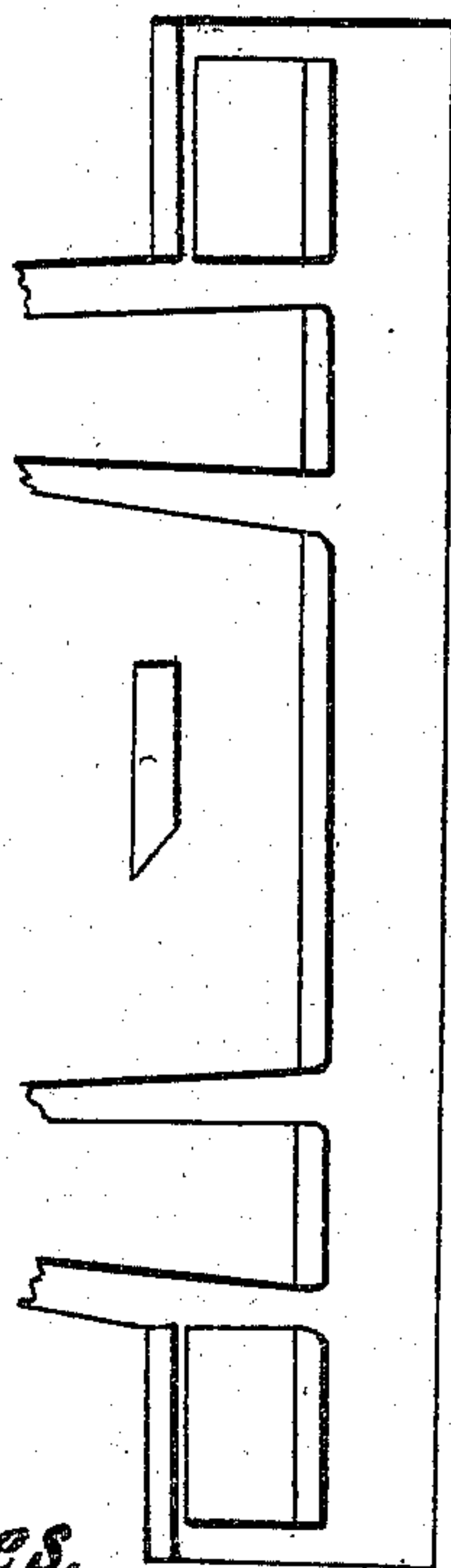


Fig. 2.



Witnesses.

Symon A. Budlong
E. B. Jarrell

Inventor.

Orlando Tallcott

UNITED STATES PATENT OFFICE.

ORLANDO TALLCOTT, OF CHICAGO, ILLINOIS.

IMPROVEMENT IN FEEDING PAPER TO PRINTING-PRESSES.

Specification forming part of Letters Patent No. 33,217, dated September 3, 1861.

To all whom it may concern:

Be it known that I, ORLANDO TALLCOTT, of Chicago, Illinois, have invented a new and useful Machine for Feeding Paper to Printing Presses; and I hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings and letters and figures of reference marked thereon, forming a part of this specification, in which—

Figure 1 is a perspective view. Fig. 2 is a view of the bottom of the frame C o o o o. Fig. 3 is a view of the cam 6 for raising the guide 7. Fig. 4 is a view of the side stop 4. Fig. 5 is a view of wheels a a, with wire springs h h bent and set in the edges of the wheels a a.

The wheels a a are supported by the guides 7 7 and run between the bars o o o o in place of the pads 2 2, as seen in Fig. 1. The wheels a a are caused to revolve by a belt, and the springs h h h h act on the paper and cause it to move forward against the stops 1 1.

In Fig. 1, A represents an endless belt of cloth on rollers.

B is the bed of the machine.

C o o o o is a frame with the wide or front part resting on the stops 4 4. The stops 4 4, as seen in Fig. 1 and 4, are side stops to stop the sheet when it is moved sidewise by the pads 3 3. That part of the stop which rests on top of the bed B is about four times as thick as the sheet, (or as thick as common sheet-zinc,) so as to keep the frame C o o o o c raised far enough from the bed B to let the sheet slide freely between the bed and frame. The front part of the stop is slotted and fastens to the front of the bed B by means of set-screws s s, and by means of the slot they can be adjusted at any required distance from the center.

The upper ends of the frame C o o o o c rest in holes in the sides of the machine. The frame C o o o o rests on the stops 4 4 and keeps the sheet from doubling up when the pads slide on it. After the sheet is in its proper place the frame C o o is raised off from it by the guides 7 7 by means of projections that turn up at each end of C and pass through holes in the guides 7 7, thus giving room for the sheet to be taken out by the clamps of the press. The bars o o o o are bent about three inches from the plate C, so as to rest as near

the bed B as the plate C does. The bars o o o o are also nearer together at the upper end, so as to bring the pads 2 2 in the right place on the sheet. The bars o o o o are about half an inch wider apart at the lower end, so as to allow the pads a side motion in case one side of the sheet reaches the front stop first.

e is the bar for carrying the pads 2 2 and runs on the guides 7 7 by means of notches fitting the guides.

i is a bar for carrying the pads 3 3. The ends of the bar i pass through holes in the guides 7 7, so as to be raised with the guides.

1 1 are front stops fastened to the bed-plate B.

5 5 are wheels for driving the machine.

6 6 (one only is shown) are cams on the inside of the wheels 5 5 for raising the guides 7 7.

8 is a cam on the edge of the wheel 5 for working the bar i and pads 3 3.

9 is a wheel for carrying the endless belt A.

The bar e is attached to the wheels 5 5 by cranks. The pads 2 2 are fastened to the bar e by means of metal knees. One end fastens to e and the other to the pad. Both joints are loose pivots, thus giving the pads a free up-and-down as well as a lateral motion.

The bottoms of the pads 2 2 and 3 3 are lined with rough rubber or any material that will cause sufficient friction to draw or move the top sheet off the pile.

3 3 are pads for moving the paper sidewise against the side stops 4 4. These pads are moved by the cam 8 acting on the end of the bar i, and the pads and bar i are brought back to their place by the rubber spring n.

7 7 are guides for carrying the bar e and raising the frame C o o o o.

This machine is operated as follows: When the pads 2 2 are drawn back by turning the cranks, they are raised above the paper, and when the pads move forward they fall on the top sheet and by means of the friction of the pad the top sheet is carried forward till it reaches the front stops 1 1. If one side of the sheet reaches the stop first, that pad will slide and the other side of the sheet will continue to move until it reaches the stop. Then both pads will slide until they reach the frame C o o o. When the pads 2 2 are raised off the sheet, the pads 3 3 drop on it and the cam 8

acts on the bar 1, and thus pushes the pads 3 3, with the sheet, sidewise until the sheet hits the stop 4. Then the pads slide on the sheet until the cam 8 passes the bar 1. Then the frame C o o o and pads 3 3 are raised off the sheet by means of the cams 6 6, which allows the sheet to be taken out of the clamps of the press. The cams 6 6 are so constructed that the guides 7 7 rest on the low part of the cam, thus keeping pads 3 3 raised above the sheet till the pads 2 2 cease to act. Then the pads 3 3 fall on the sheet and move it sidewise.

What I claim as my invention, and wish to secure by Letters Patent, is—

1. The use of friction-pads for the purpose of moving the top sheet of a pile of paper forward against front stops and sidewise against side stops, substantially as described.

2. Feeding the sheets between two frames

or plates placed far enough apart to allow a single sheet to pass freely between near enough together to prevent the sheet from doubling up by means of the force applied to bring it to its proper place, when constructed and operated in the manner and for the purpose set forth, substantially as described.

3. In combination with the pads 3 3, the adjustable side stops 4 4, the same to be adjustable at any required distance from the center.

4. The several devices in combination, substantially as above set forth and described.

ORLANDO TALLCOTT.

Witnesses:

PETER KLUMB,
H. S. HOFFMAN.