

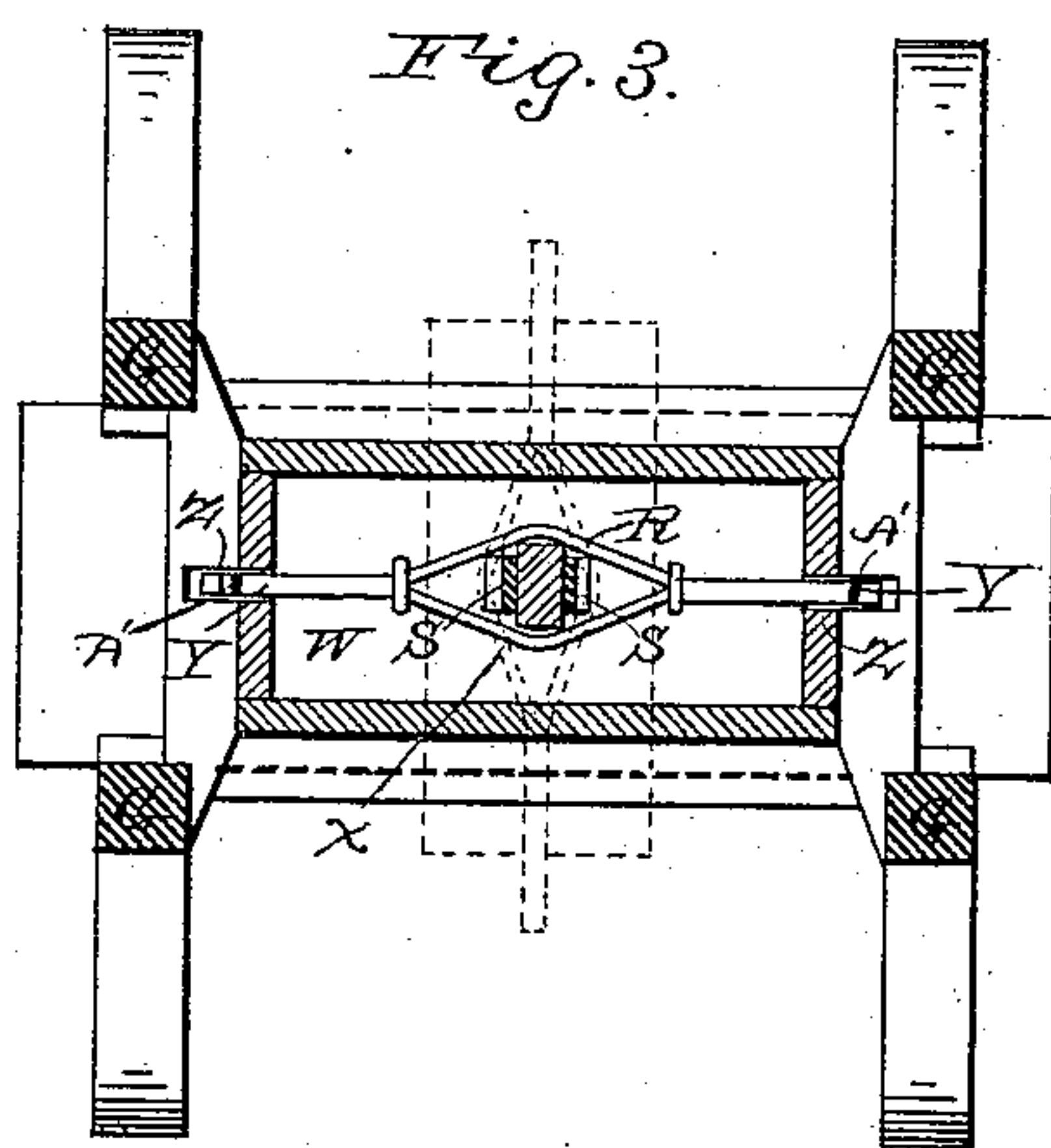
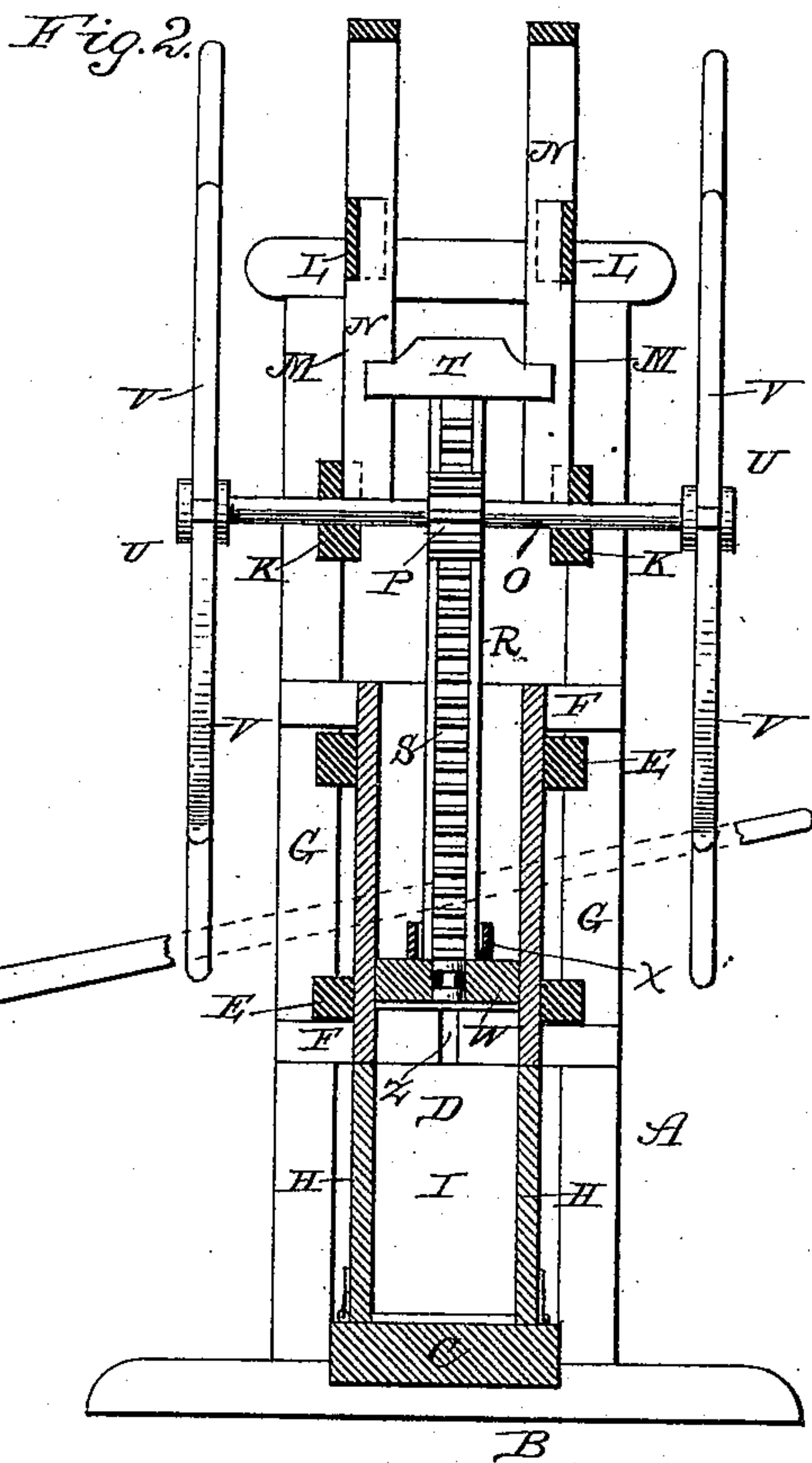
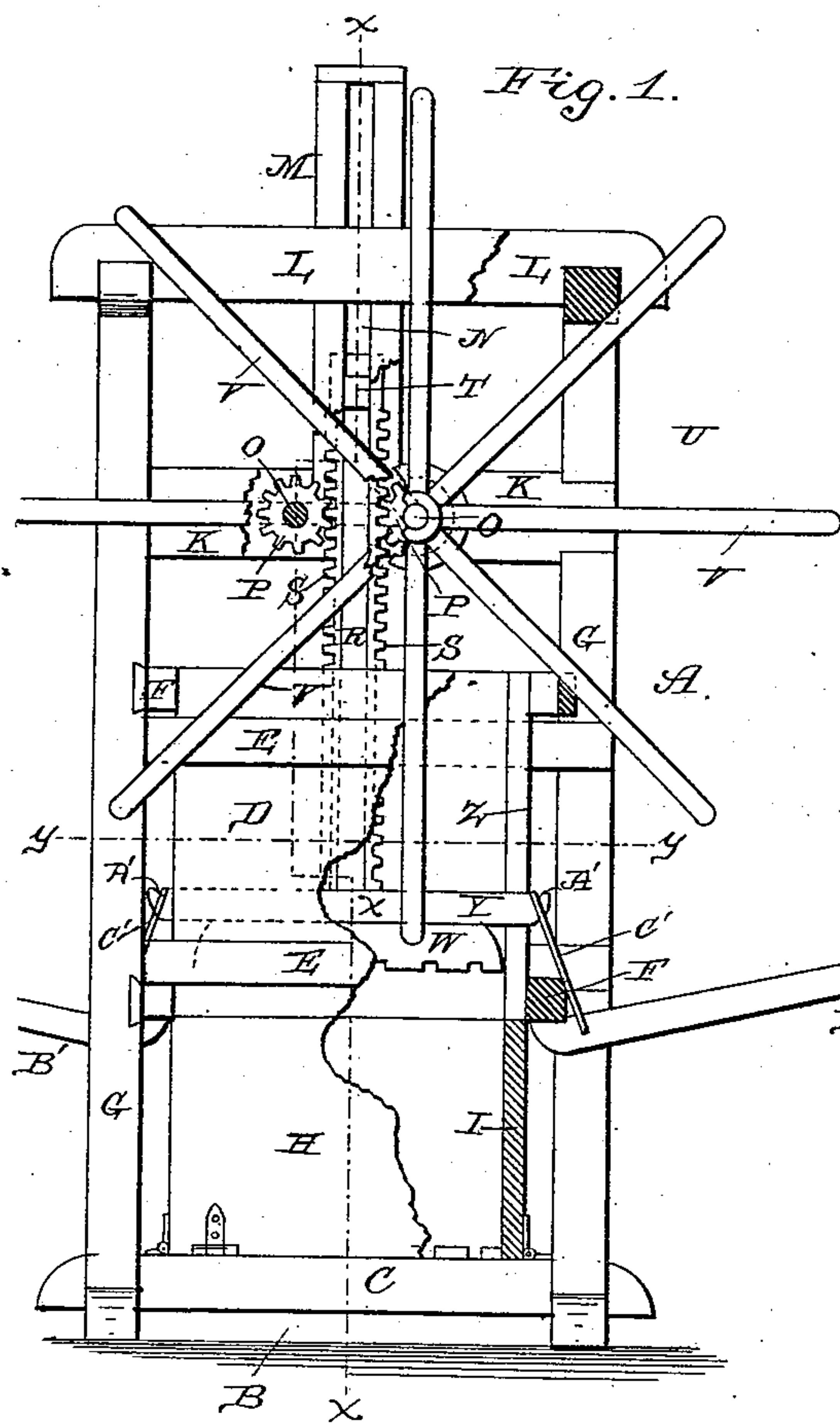
(No Model.)

U. T. STEWART.

COTTON PRESS.

No. 370,288.

Patented Sept. 20, 1887.



Witnesses
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UNITED STATES PATENT OFFICE.

URIAH THREAT STEWART, OF SAULSBURY, TENNESSEE.

COTTON-PRESS.

SPECIFICATION forming part of Letters Patent No. 370,288, dated September 20, 1887.

Application filed June 28, 1887. Serial No. 242,738. (No model.)

To all whom it may concern:

Be it known that I, URIAH THREAT STEWART, a citizen of the United States, residing at Saulsbury, in the county of Hardeman and State of Tennessee, have invented certain new and useful Improvements in Cotton-Presses; and I 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, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

My invention relates to an improvement in cotton-presses; and it consists in the peculiar construction and combination of devices, that will be more fully set forth hereinafter, and particularly pointed out in the claim.

In the accompanying drawings, Figure 1 is partly an elevation and partly a vertical sectional view of a cotton-press embodying my improvements. Fig. 2 is a vertical sectional view of the same, taken on the line *x x* of Fig. 1. Fig. 3 is a horizontal sectional view taken on the line *y y* of Fig. 1.

A represents a vertical frame which rises from a ground-frame, B.

C represents a platform which forms the bottom of a press-box, D. The press-box is secured between and supported by horizontal side bars, E, and end bars, F, that connect the corner-posts G of frame A. The lower portion of the press-box has the usual hinged doors, H and I, adapted to open outwardly and permit the bale to be tied and removed. The frame A extends a considerable distance above the top of the press-box, and has horizontal beams K and horizontal top beams, L.

M represents vertical guide-bars, which are secured to and connect the beams K and L, and are provided with vertical slots N.

O represents a pair of horizontal shafts which are journaled transversely in the beams K, near the centers thereof, and the said shafts are provided with pinions P.

R represents a vertically-movable rod which is provided on opposite sides with rack-teeth S. The upper end of the said rod has a cross-head, T, the ends of which are reduced and en-

ter and are guided vertically by the slots in the guide-bars. The rack-teeth S mesh with the pinions P, as shown.

To the outer ends of the shafts O, on opposite sides of the press, are secured lever-wheels M, each of which has radial lever-arms V, by which the shafts may be turned in either direction, and thereby cause the pinions to move the rod R upward or downward.

W represents a follower which is swiveled to the lower end of the rod R, and is thereby adapted to turn thereon in a horizontal plane.

X represents a metallic yoke which is secured on the upper side of the follower and has arms Y, that project beyond the ends of the follower and are adapted to work in vertical open slots Z in the end walls of the press-box. In the upper sides of the arms Y are notches A'.

B', Fig. 1, represents a pair of lever-bars which are adapted to engage the lower sides of the bars F, and are provided near their inner ends with links C', the upper ends of which are adapted to engage the notches in the arms Y of the yoke when the follower has been lowered sufficiently in the press-box.

The operation of my invention is as follows: In order to form a bale of cotton the doors at the lower end of the press-box are closed and fastened, either by the bars shown in the drawings or in any other suitable manner. The shafts are then turned by the lever-wheels to cause the follower to be raised out of the press-box, and the follower is then turned on the lower end of the rod R transversely over the press-box, as shown in dotted lines in Fig. 3, so as to uncover the press-box and permit the cotton to be thrown therein. When a sufficient quantity of cotton is in the press-box, the follower is turned directly over the top of the press-box, so that the arms Y align with the slots in the end walls thereof, and the shafts are then turned to cause the follower to descend and press the cotton. When the follower is nearly to the lower limit of its stroke, the links C' are connected to the arms Y, the inner ends of the levers B' are fulcrumed under the bars F, and the operatives, by pressing down on the outer ends of the said bars, compress the cotton into a bale. The doors are

then opened, the bale tied and removed, and the operation before described is then repeated.

Having thus described my invention, I
5 claim—

In a cotton-press, the combination of the press-box having the bars F and the vertical open slots, the vertically-movable rod, the follower swiveled to the lower end of the said rod
10 and having the projecting arms Y, adapted to

work in the vertical slots, and the levers B', adapted to be fulcrumed under the bars F, and provided with the links C', to engage the arms Y, substantially as described.

In testimony whereof I affix my signature in
15 presence of two witnesses.

URIAH THREAT STEWART.

Witnesses:

ROGER S. CLARD,
T. C. MOORE.