

H. A. TOREN.  
PRINTING PRESS.

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925,399.

Patented June 15, 1909.

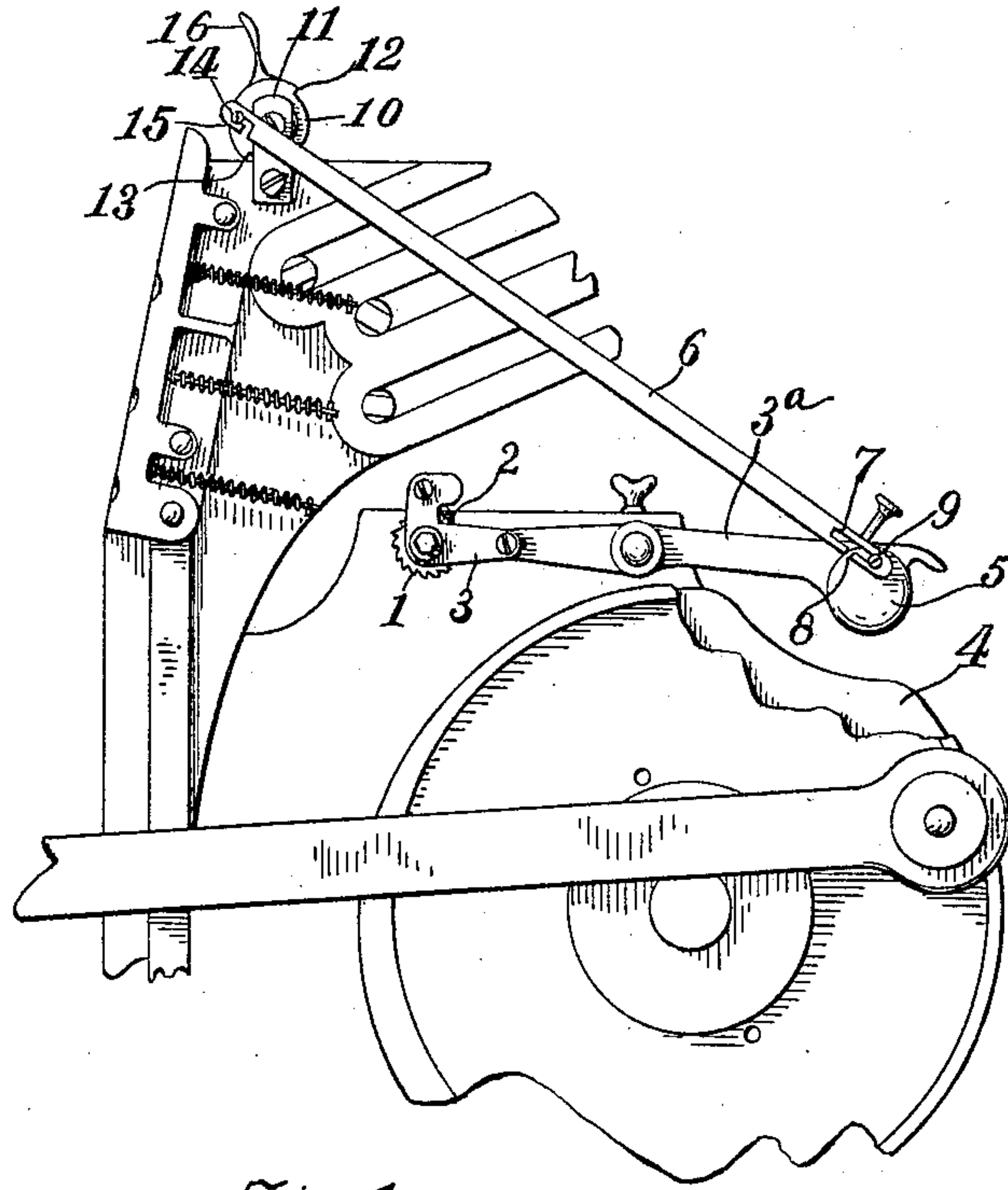


Fig. 1.

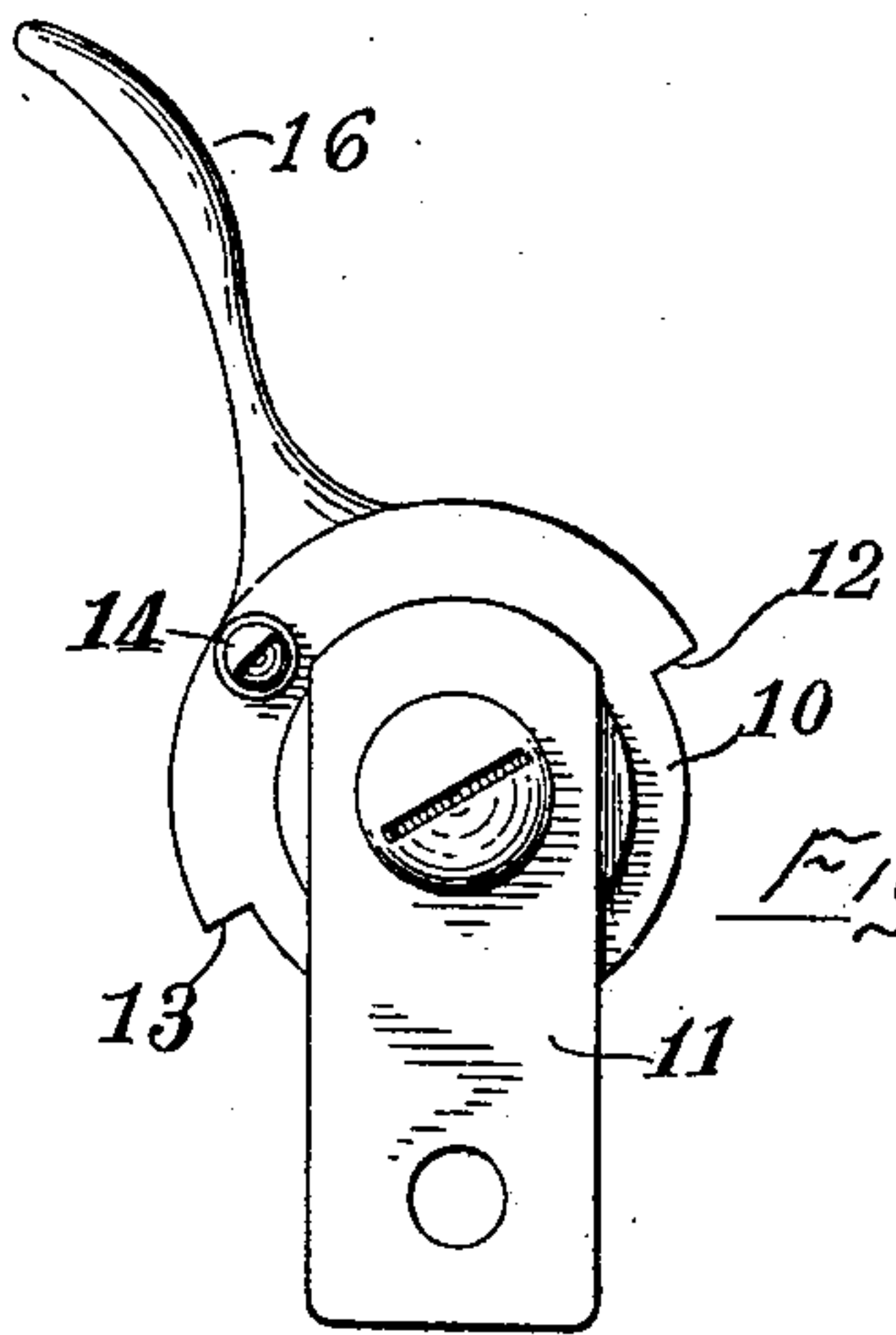


Fig. 2.

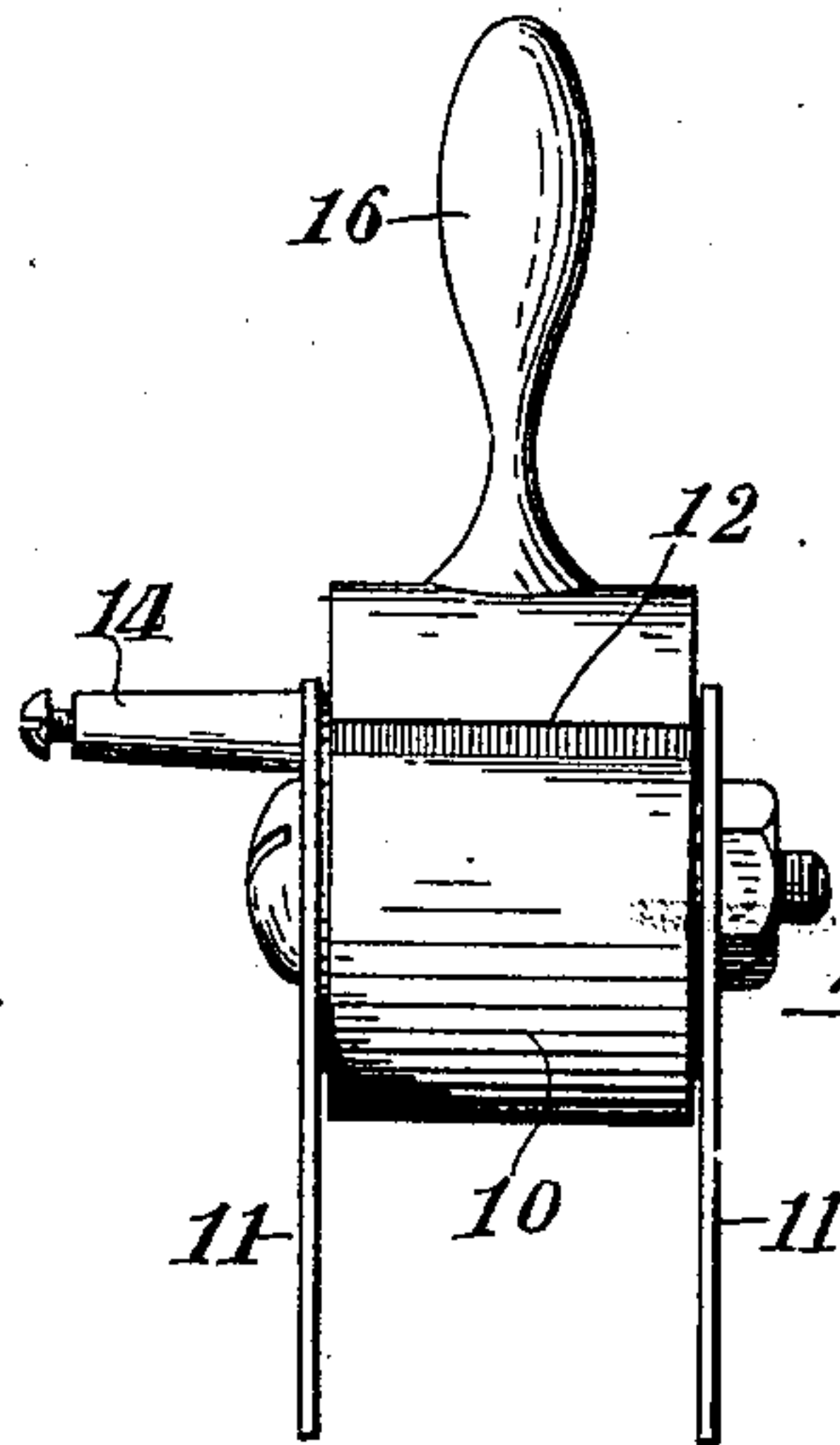


Fig. 3.

Witnesses  
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# UNITED STATES PATENT OFFICE.

HERMAN A. TOREN, OF GRAND RAPIDS, MICHIGAN.

## PRINTING-PRESS.

No. 925,399.

Specification of Letters Patent.

Patented June 15, 1909.

Application filed September 8, 1908. Serial No. 451,922.

*To all whom it may concern:*

Be it known that I, HERMAN A. TOREN, a citizen of the United States of America, residing at Grand Rapids, in the county of Kent and State of Michigan, have invented certain new and useful Improvements in Printing-Presses; and I do hereby 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.

My invention relates to improvements in printing presses and more particularly to means for stopping and starting the action of the ink fountain of the same, and its object is to provide convenient means for so doing, to provide a device readily attached to printing presses now in use, and to provide the device with various new and useful features hereinafter more fully described and particularly pointed out in the claims, reference being had to the accompanying drawing in which:

Figure 1. is a side elevation of a portion of a printing press with my device attached; Fig. 2. an enlarged detail of the manually operated means shown in side elevation; Fig. 3. the same in front elevation.

Like numbers refer to like parts in all of the figures.

1 represents the ratchet wheel which operates the roller of the ink fountain of a printing press.

2 is a pawl which operates the ratchet 1, which pawl is mounted on a bell crank lever 3 and operated by a lever 3<sup>a</sup> which is in turn operated by a cam 4 which engages a projection 5 on the lever 3<sup>a</sup> to periodically move the latter.

So far the device shown is the usual construction of a Colts armory press. The style of press, however, is not material.

To enable the pressman to conveniently stop the action of the ink fountain without moving away from the proper position for feeding the press, I provide a connecting rod 6 having a longitudinal slot 7 to receive a stud 9 on the lever 3<sup>a</sup> and traversed thereby when the fountain is operated. This slot has a lateral opening 8 for convenience in detaching the rod when occasion requires. This rod 6 extends to near the front of the machine, and at its forward end terminates in a hook 15 which engages a stud 14 near

the periphery of a wheel 10 journaled in supports 11 adapted to embrace the upper edge of the press frame near the front thereof and to be secured thereto by any convenient screw or bolt. This wheel 10 has projections or shoulders 12 and 13 at opposite sides adapted to engage the edge of the press frame and thus limit the rotation of the wheel, when manually turned to shift the position of the stud 14, which latter is so located that the rod 6 will extend between the axis of the wheel and the shoulder 13, and the stud 14 will be at the edge of the wheel most remote from the lever 3<sup>a</sup>. In such position the said lever will be held raised clear of the cam 4 and put out of action thereby, and when the wheel 10 is turned so that the shoulder 12 is in contact with the frame, the stud 14 will be then at the side of the wheel nearest to the lever 3<sup>a</sup> and the latter lever lowered in contact with the cam wheel 4 and operated thereby, the stud 9 oscillating or sliding in the slot 7 as the lever rises and falls to operate the ink fountain in the usual way.

What I claim is:

1. A printing press, comprising a lever to operate the ink fountain, a cam to automatically operate the lever, a stud on the lever, a rod having an elongated opening to receive the stud, and a manually adjusted means located near the front of the press and connected to the rod to adjust the same.

2. A printing press, comprising a lever to operate the ink fountain, a cam to automatically operate the lever, a stud on the lever, a connecting rod having an elongated opening to receive the stud, a manually operated wheel mounted on the frame of the press near the front thereof and having shoulders to engage the frame and a stud in the wheel engaging a hook on the lever.

3. A printing press, comprising an automatically operated lever to operate the ink fountain, a stud on the lever, a rod having an elongated opening to receive the stud, and a lateral opening to permit disengagement of the rod with the stud, a wheel journaled between detachable supports mounted on the frame of the press near the front thereof, said wheel having shoulders to engage the frame and limit the rotation of the wheel, and a stud on the wheel engaging a hook on the rod.



4. As an article of manufacture, a printing press attachment, comprising a wheel having shoulders to engage the frame of a printing press to limit the movement of the  
5 wheel, supports between which the wheel is journaled, a stud on the wheel, a connecting rod having a hook at one end to engage the stud, and an elongated opening at the other

end and means for connecting the rod to the ink fountain lever of the printing press. 10

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

HERMAN A. TOREN.

Witnesses:

GEORGIANA CHACE,  
LUTHER V. MOULTON.