

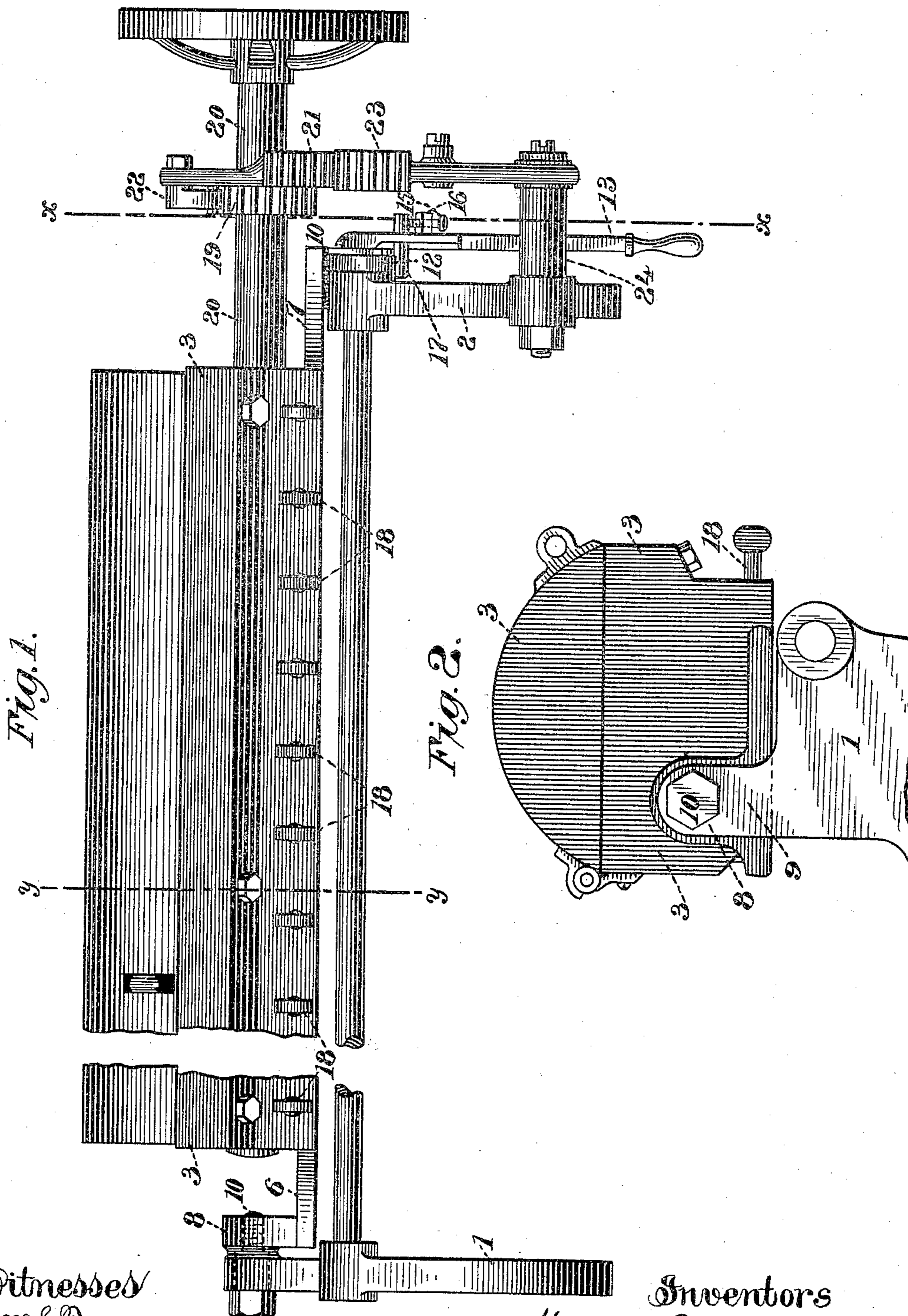
(No Model.)

3 Sheets—Sheet 1.

M. N. CORMACK & S. WHITLOCK.  
INK FOUNT FOR PRINTING PRESSES.

No. 436,847.

Patented Sept. 23, 1890.



Witnesses  
Wm. J. Panner  
A. J. Panner.

Inventors  
Mark N. Cormack  
Sturges Whitlock  
by their attorney S. H. Hubbard.

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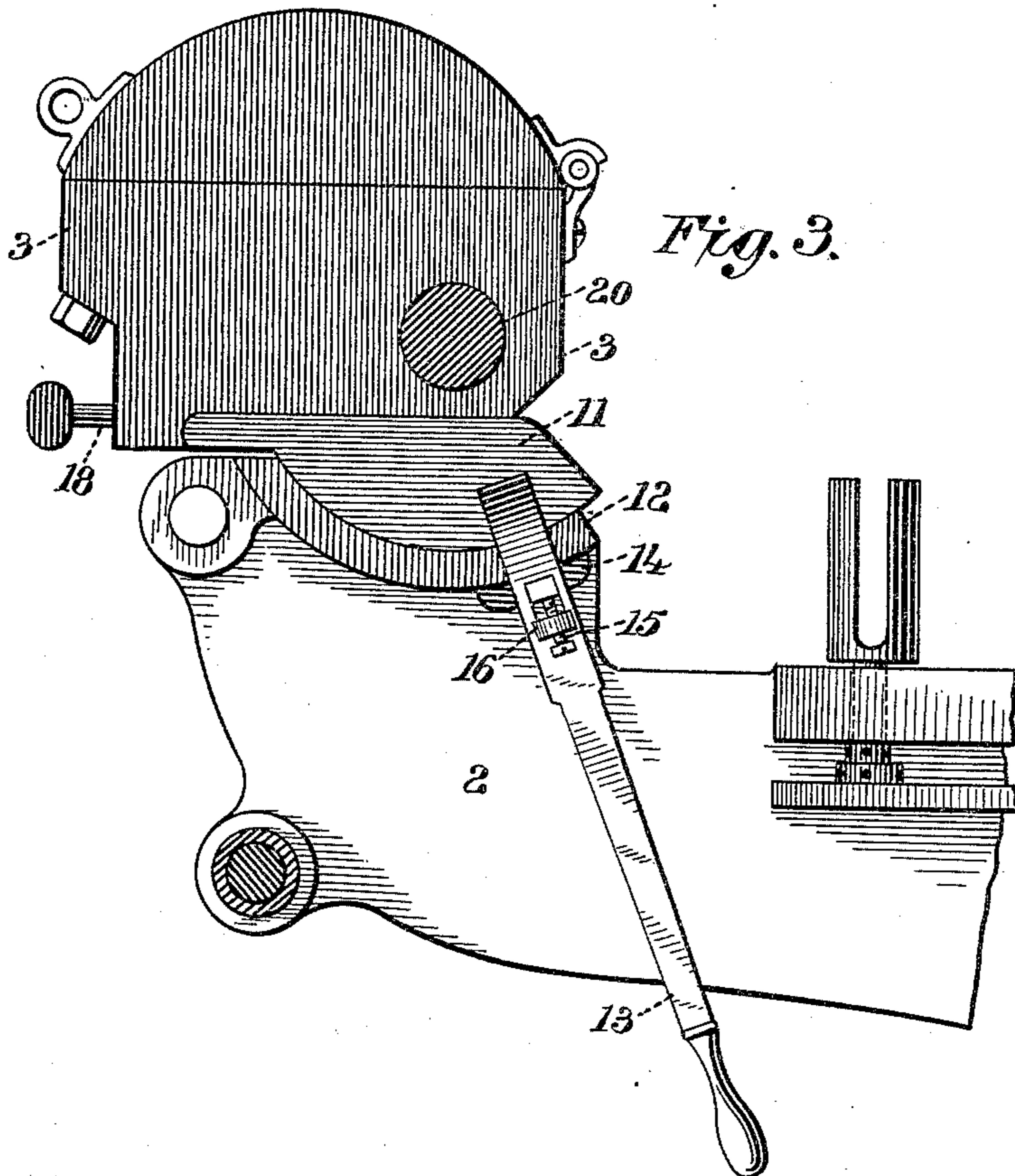
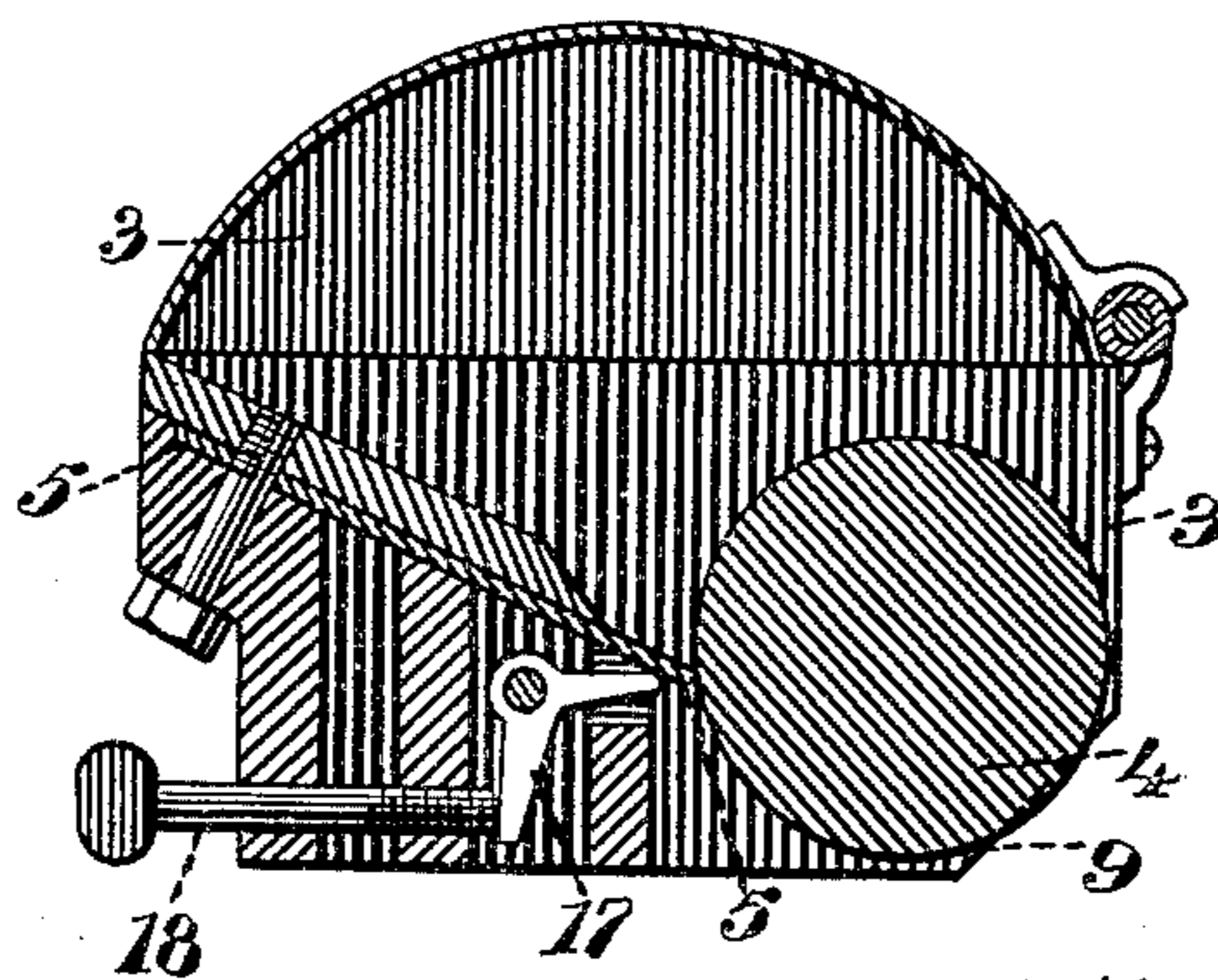


Fig. 3.



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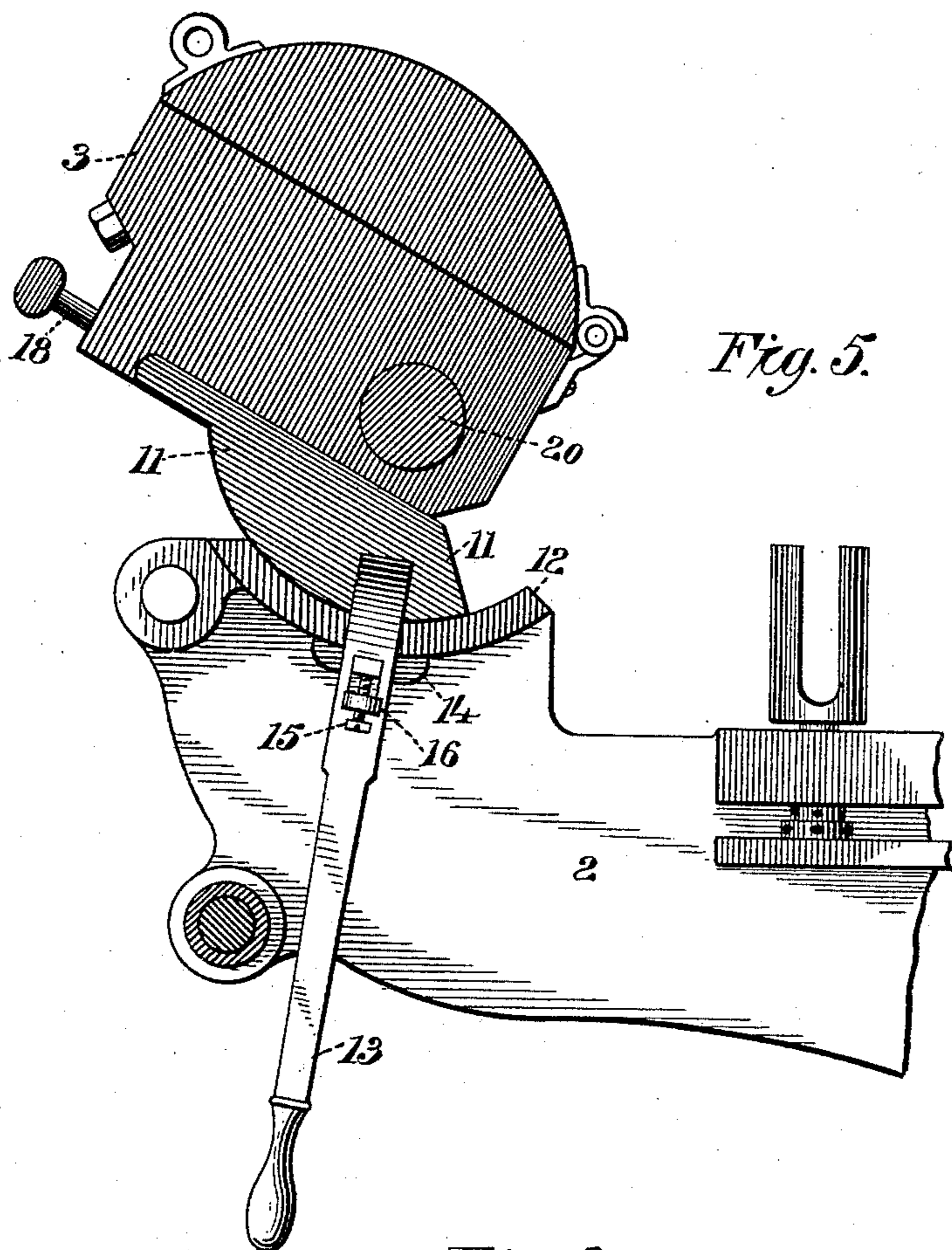
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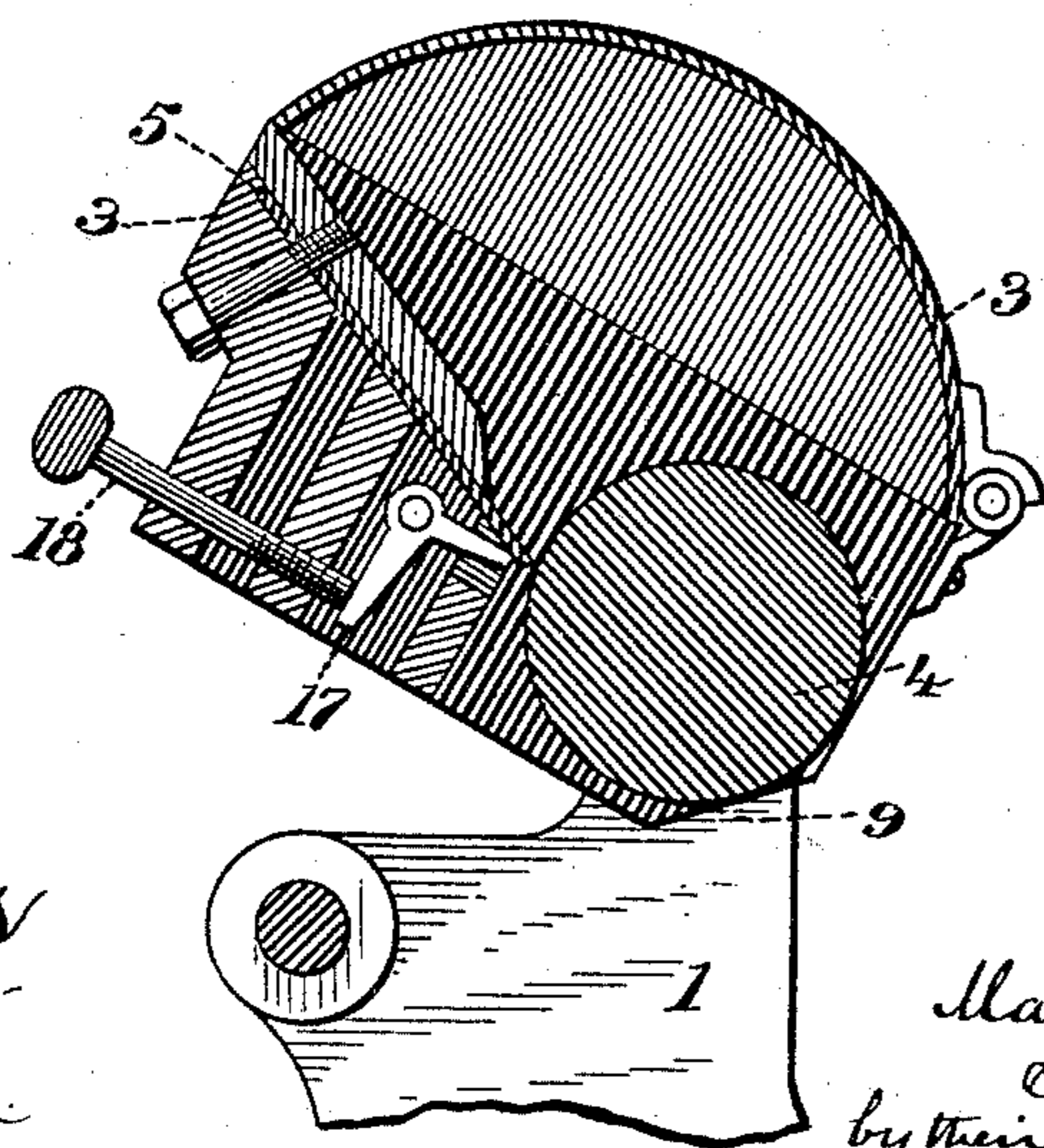
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*Fig. 5.*

*Fig. 6.*



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# UNITED STATES PATENT OFFICE.

MARK NAPIER CORMACK, OF NEW YORK, N. Y., AND STURGES WHITLOCK,  
OF SHELTON, CONNECTICUT.

## INK-FOUNT FOR PRINTING-PRESSES.

SPECIFICATION forming part of Letters Patent No. 436,847, dated September 23, 1890.

Application filed November 25, 1889. Serial No. 331,485. (No model.)

*To all whom it may concern:*

Be it known that we, MARK NAPIER CORMACK and STURGES WHITLOCK, citizens of the United States, residing, respectively, at  
5 New York, in the county of New York and State of New York, and at Shelton, in the county of Fairfield and State of Connecticut, have invented certain new and useful Improvements in Ink-Founts for Printing-  
10 Presses; and we 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.

15 Our invention relates to certain new and useful improvements in ink founts or reservoirs for printing-presses and the like, and has for its object to provide a device which shall be capable of adjustment to various angles in  
20 such manner as to maintain constant feed, whether the ink be thick or thin; and with this end in view our invention consists in the details of construction and combination of elements hereinafter set forth and specifically designated by the claims, and particularly in the adjustability of the fount.

In order that those skilled in the art to which our invention appertains may fully understand how to make and use the same, we  
30 will now describe its construction and operation, referring by figures to the accompanying drawings, forming a part of this specification, and in which—

Figure 1 is an elevation of an ink-fount in  
35 proper position relative to the frame of the press; Fig. 2, a left end elevation, the frame being broken away; Fig. 3, a section at the line *xx* of Fig. 1, showing the means for adjusting and securing the fount; Fig. 4, a section at the line *yy* of Fig. 1; and Figs. 5 and  
40 6, views similar to Figs. 3 and 4, but showing the fount adjusted at different angles.

Like figures denote like parts throughout the drawings.

45 1 2 are extensions of the side frames of the press for the purpose of supporting the ink-fount and its operating mechanism.

3 represents the ink-fount, which is provided with the usual feed-roll 4, journaled therein,  
50 scraper 5, and adjusting mechanism therefor.

Heretofore this scraper 5 has been stationary as regards its angle of inclination, being bolted to the fount and the fount in turn bolted to the frame of the press; but this arrangement has been found to be disadvantageous, in that inks  
55 of different consistencies did not flow alike. The angle of the scraper which allowed thin inks to feed freely and evenly did not permit of the free and even feeding of thick inks. This disadvantage we overcome in the following manner: Formed with the fount at  
60 either end thereof are ledges 6 and 7, the former of which is provided with a lug 8. 9 is an ear formed with the frame 1, and 10 a bolt passing loosely through said ear and threaded  
65 into the lug 8 on the line of axis of the feed-roll 4. Cast with the ledge 7 is a segment 11, concentric with the feed-roll, and formed in the frame 2 is a segmental track 12, adapted to support the segment 11 in such a manner  
70 as to permit of an oscillatory movement of the latter about the center of the feed-roll. 13 is a hand-lever secured to the segment 11 and extending within easy reach of the operator, and 14 is a shoe adapted to fit the under  
75 side of the track 12, which overhangs the frame 2 for that purpose. This shoe has a sliding movement on the hand-lever, and a screw 15, passing through a lug 16 on said lever and bearing against said shoe, serves to  
80 set the latter against the track to retain the lever in any desired adjustment.

As the fount and all the parts carried thereby are supported on the frames 1 and 2 by the bolt 10 and segment 11, it will be seen that  
85 to adjust the angle of the scraper it is only necessary to grasp the hand-lever and move the fount around the feed-roll to the desired position, when by tightening the set-screw 15 the said lever and fount will be retained in  
90 said position.

Figs. 2, 3, and 4 represent the fount in the position which gives the scraper the proper angle when a thin or free flowing ink is being used, and Figs. 5 and 6 represent the position  
95 of the fount and angle of the scraper best adapted for feeding thick and slow-feeding inks.

As the scraper and its cap form the bottom of the ink-fount, it is obvious that the greater  
100

the angle of said scraper the more ready will be the flow of the ink to the feed-roll and its consequent distribution by said roll.

17 18 are the angle-levers and thumb-screws, respectively, for regulating the space between the edge of the scraper and the periphery of the feed-roll.

19 is a ratchet-wheel secured to the feed-roll shaft 20, and 21 is a segmental gear loosely journaled on said shaft and carrying a pawl 22, adapted to engage said ratchet.

23 is a segmental gear meshing with the gear 21 and journaled to the frame 2 at 24.

By proper mechanism and connections the gear 23 is caused to oscillate, causing the feed-roll through the gear 21, pawl 22, and ratchet 19 to revolve intermittently; but as this is the well-known mechanism common to presses for accomplishing the feeding of the ink we will not enter into any detailed description thereof.

As a means for moving and securing the fount, we have shown a lever and a friction-shoe; but we do not desire to be limited to this specific mechanism, since any binding device will answer the purpose of the shoe, and the purpose of the handle or lever is merely to afford a ready means for moving the fount upon its bearings, so as to change the angle of the scraper-blade.

Having thus fully described our invention, we claim—

1. In a printing-press, the combination, with the frame of an ink-fount supported and adapted to have an oscillatory adjustment thereon, of a feed-roll arranged within said fount and forming a center about which the movement of said fount takes place, and means for holding said fount at the required adjustment, substantially as specified.

2. In a printing-press, the combination, with the bed and the primary feeding-roll, of an oscillatory ink-fount journaled about said roll and having on the frame a bearing whose curve is struck from the center of the roll, means for shifting the fount upon the bearing and about the roll, and a clamping device for securing the fount in the desired position, substantially as specified.

3. In a printing-press, an ink-fount support-

ed by the frame of said press and adapted to have an oscillatory adjustment thereon, in combination with a feed-roll journaled within said fount at the center of said oscillation, and a lever secured to the fount for effecting the adjustment thereof, as shown and for the purpose specified.

4. In combination, the ink-fount 3, having journaled thereon the feed-roll 4, the scraper 5, serving as the bottom of the fount, the bolt 10, forming a swinging connection between the frame of the press and the fount, the segment 11, and the track 12, adapted to receive said segment, the lever 13, the shoe 14, and the screw 15 for setting the shoe against the track, combined as and for the purpose specified.

5. In a printing-press, the combination, with the frame having bearings adapted to support an ink-fount, of the primary feeding-roll, the fount mounted and adapted to move on its bearings on the bed, and a lever and friction-shoe whereby said fount is operated and held, substantially as specified.

6. In a printing-press, the frame and the primary feeding-roll, in combination with the ink-fount journaled at one end to the frame and supported at the other end upon a sliding segment, and means, as described, for moving said ink-fount to various angles relative to the primary feeding-roll and for securing said fount, substantially as set forth.

7. In a printing-press, the combination, with the frame of the ink-fount, having a scraper-blade forming the bottom thereof, of the primary feeding-roller arranged and adapted to revolve within the fount contiguous to the edge of the blade, the journal whereon one end of the fount is supported, the segment and track for the support of the other end, and the lever and friction-shoe whereby the angle of the scraper-blade to the roll is determined, substantially as specified.

In testimony whereof we affix our signatures in presence of two witnesses.

MARK NAPIER CORMACK.  
STURGES WHITLOCK.

Witnesses:

C. F. ARSTROM,  
CHAS. BRITTON.