

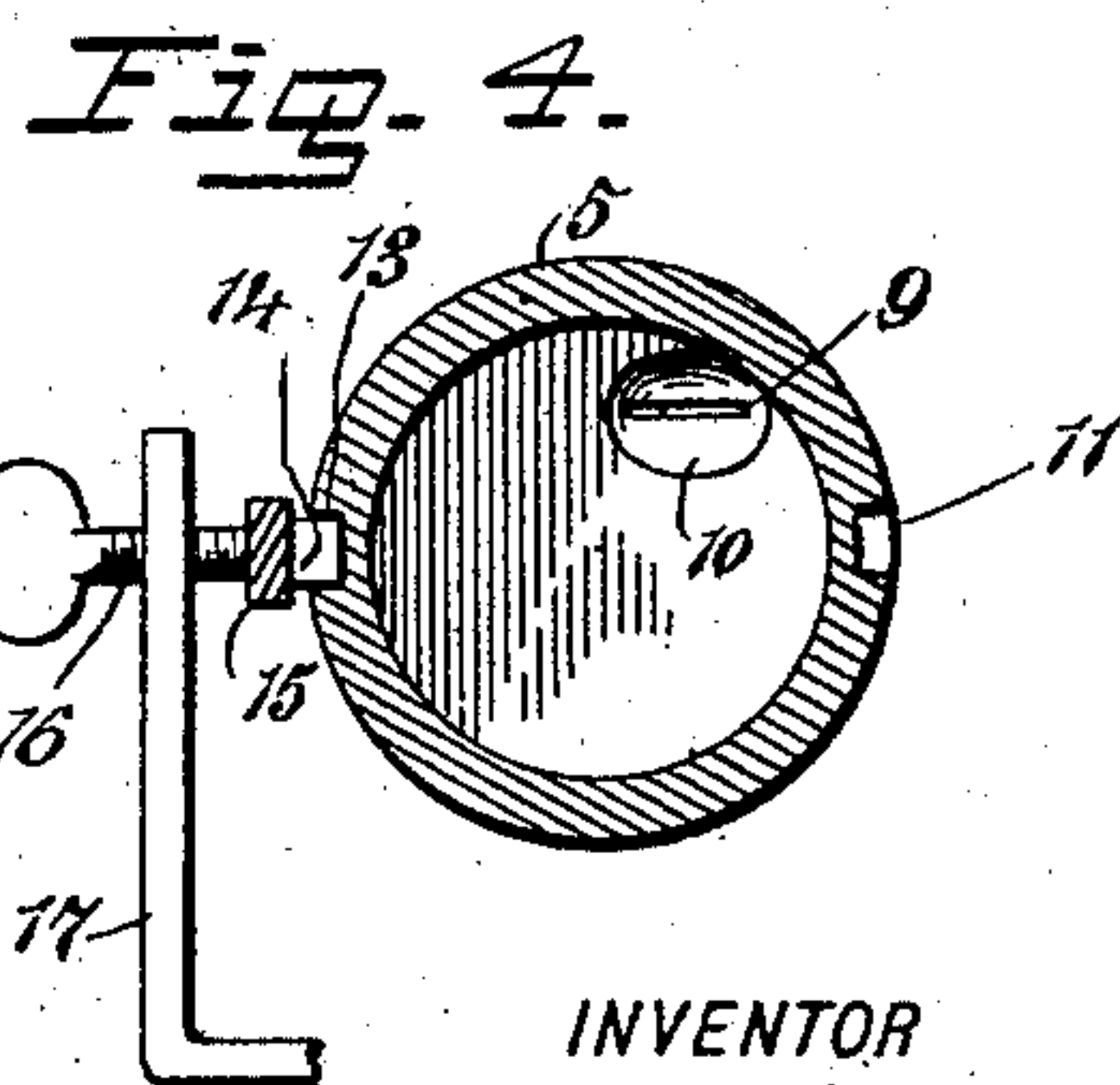
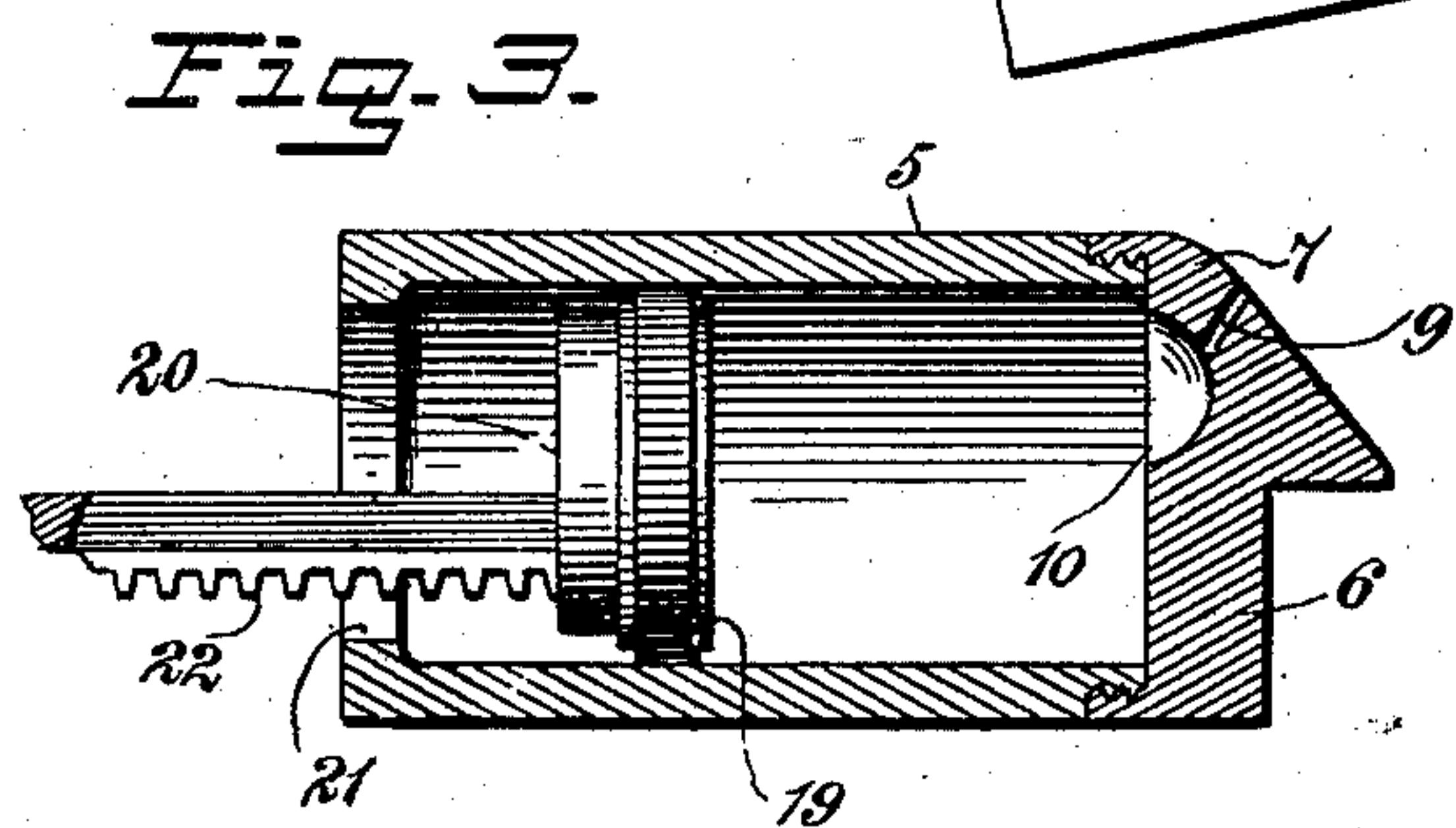
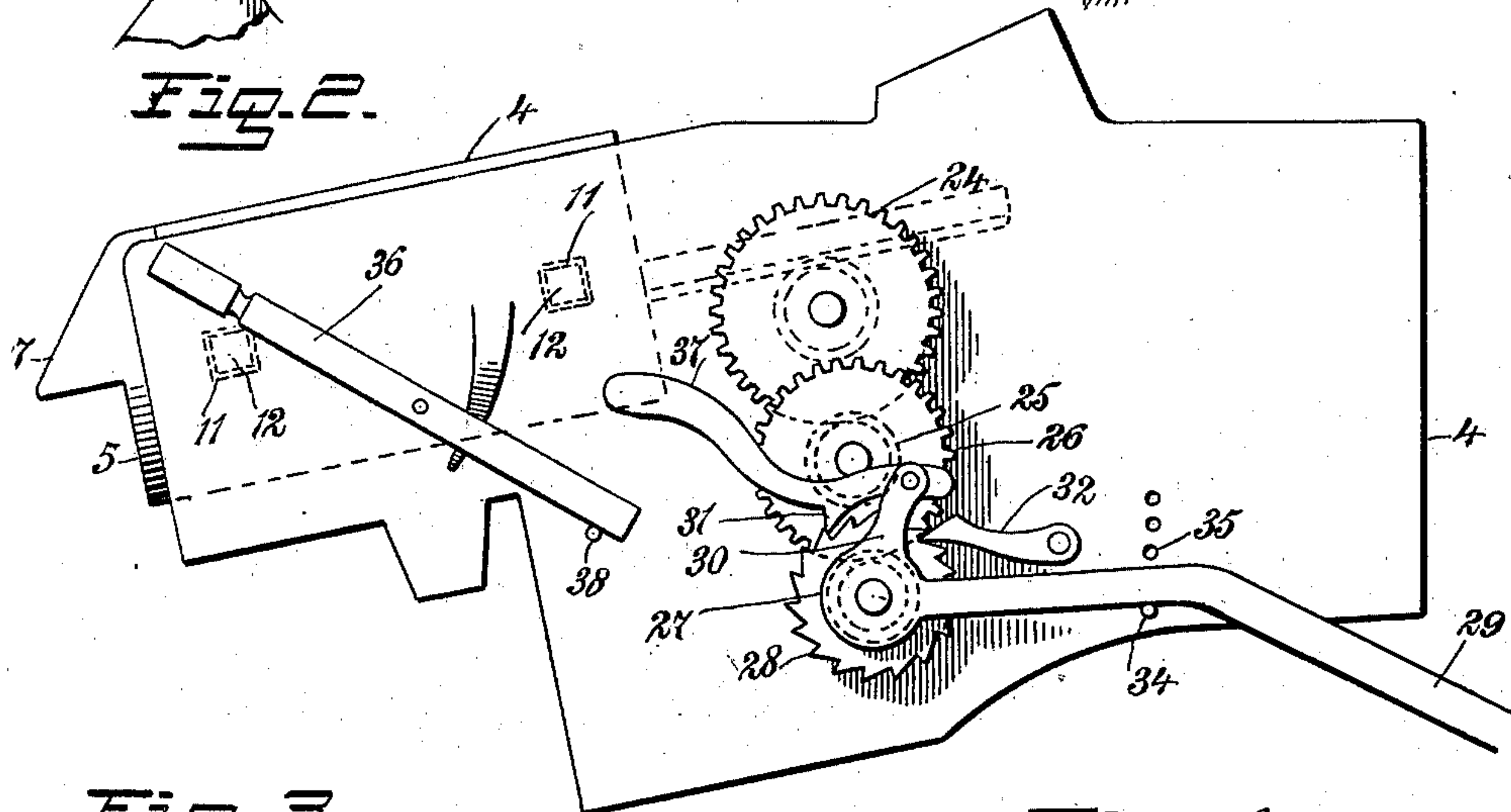
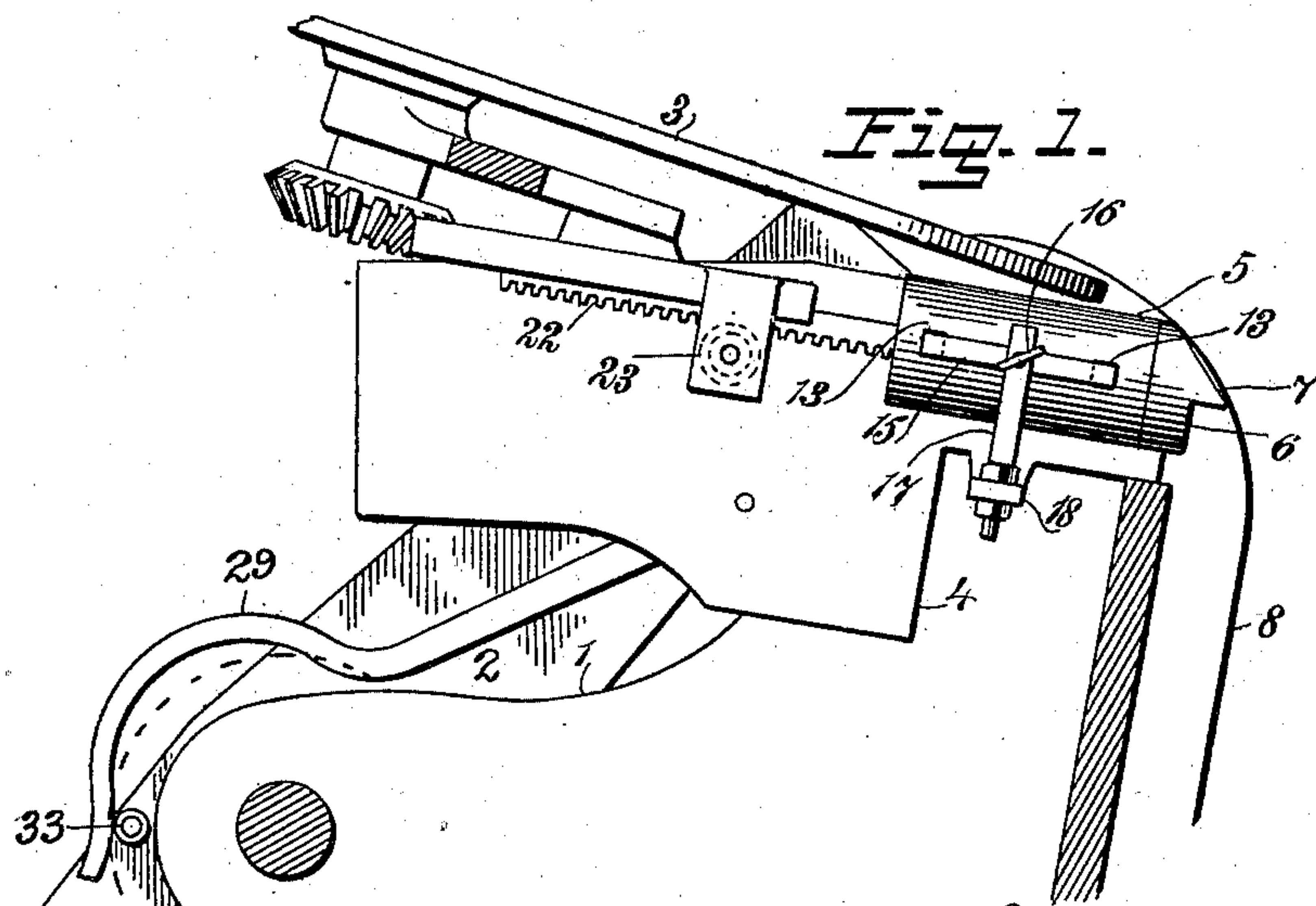
No. 692,065.

Patented Jan. 28, 1902.

R. NAUMANN.  
PRINTING PRESS ATTACHMENT.

(Application filed Oct. 18, 1901.)

(No Model.)



WITNESSES:

James F. Duhamel.  
C. R. Ferguson

INVENTOR  
Robert Naumann  
BY *Mum*  
ATTORNEYS



# UNITED STATES PATENT OFFICE.

ROBERT NAUMANN, OF NEW YORK, N. Y.

## PRINTING-PRESS ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 692,065, dated January 28, 1902.

Application filed October 18, 1901. Serial No. 79,167. (No model.)

*To all whom it may concern:*

Be it known that I, ROBERT NAUMANN, a citizen of the United States, and a resident of the city of New York, borough of Manhattan, in the county and State of New York, have invented a new and Improved Printing-Press Attachment, of which the following is a full, clear, and exact description.

This invention relates to improvements in ink-supplying attachments for all printing-presses of the type having a rotary ink-spreading disk; and the object is to provide an ink-font that may be quickly attached to or removed from a press, so that different inks or changes from one color to another may be made without delay, and, further, to provide a simple means, actuated by a movement of the press, whereby the ink-supply for the rollers will be forced out evenly and with uniform pressure; and still another object is to provide a means for regulating the amount of ink discharged, resulting in a considerable saving of time.

I will describe a printing-press attachment embodying my invention and then point out the novel features in the appended claims.

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

Figure 1 is a side elevation showing an inking device embodying my invention as applied to a press. Fig. 2 is an opposite side view showing the means for actuating the ink-discharging plunger. Fig. 3 is a longitudinal section of the font or reservoir, and Fig. 4 is a cross-section of the reservoir.

Referring to the drawings, 1 designates a portion of a printing-press frame, and 2 indicates one of the arms for carrying the inking-rollers over the rotary spreader-disk 3, operated in the usual manner. Attached to the frame portion 1 is a plate 4, to which is removably attached the ink-font 5. As here shown, this ink-font is cylindrical and has a removable front end piece 6, the upper portion 7 of which is inclined substantially to the form of the guide 8, and in this inclined portion 7 is formed an oblique discharge-slot 9, at the inner end of which is a depression or recess 10. This font has at one side recesses 11 for receiving lugs 12 on the plate 4, and at

its opposite side it is provided with recesses 13 to receive lugs 14 on the end of a clamping-bar 15, which is engaged by a set-screw 16, passing through an upwardly-extended arm 17, attached to a bracket 18 on said plate 4. By this arrangement it is evident that the font may be quickly removed and replaced by another one containing a different-colored ink when desirable. Movable in the font is a follower 19, which at its rear side is loosely engaged by a plunger-head 20 of a size to pass readily through an opening 21 at the rear end of the font. Extending from this plunger-head is a rack 22, engaging with a pinion 23 at one side of the plate 4, while on the shaft of said pinion, at the opposite side of the plate, is a gear-wheel 24, meshing with a pinion 25 on the shaft of a gear-wheel 26, which engages with a pinion 27 on the shaft of a ratchet-wheel 28. Mounted to swing on the shaft of the ratchet-wheel is an actuating-lever 29, to an upward extension 30 of which is pivoted a dog 31, which engages with the ratchet-wheel. A stop-dog 32, engaging with the ratchet-wheel, prevents any possible backward movement of the device. The rear end of the lever 29 is designed to be engaged by a roller 33, carried by the arm 2, and to regulate the movement of the gear mechanism, and consequently regulate the movement of the follower 19 to discharge more or less ink through the slot 9, the said lever will normally rest on a pin 34, adapted to be placed in any one of a series of holes 35, arranged in a vertical line in the plate 4.

The actuating mechanism may be rendered inoperative by raising the dog 31, so that by a movement of the lever 29 the dog will pass freely over the teeth of the ratchet-wheel. For this purpose I provide a shifting lever 36, pivoted to the plate 4 and adapted to be raised into connection with the forwardly-projecting arm 37 of the dog and hold the dog out of engagement with the ratchet-wheel. When in its lowermost position, the lever 36 rests on a pin 38.

In operation when the inking-rollers reach a position near the lower portion of the disk 3 the roller 33 will engage the lever 29, causing a movement of the same to actuate the plunger 19 and force a desired amount of ink through the opening 9, so that each roller will



take a portion of ink and spread it over the surface of the form-bearer, and the rollers on their upward movement will give an extra or perfect digesting or distribution.

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

1. An inking attachment for a printing-press, comprising a font having an opening  
10 at one end for the discharge of ink, a follower for operating in the font, and means actuated by a movement of the press for operating said follower, the font being arranged to discharge ink onto an inking-roller passing over the  
15 same, substantially as specified.

2. An inking attachment for a printing-press, comprising an ink-font having an inclined forward end provided with an outlet for ink, a follower arranged in the font, a plunger  
20 for removably engaging with said follower, and means actuated by a movement of the press for moving said follower, substantially as specified.

3. An inking attachment for a printing-press, comprising a font having an outlet-opening at one end, a plate attached to the printing-press frame, removable connections  
25 between said font and the plate comprising an arm mounted on the plate, a clamping connection between said arm and the font, a follower in the font, and means actuated by a movement of the press for moving said follower, substantially as specified.

4. An inking attachment for a printing-press, comprising an ink-font having a discharge-opening at its forward end, a follower  
35 operating in the font, a plunger removably engaging with said follower, a rack extended outward from the plunger, a ratchet-wheel, a lever loosely mounted on the shaft of said ratchet-wheel and adapted to be operated by  
40 a movement of the printing-press, a dog car-

ried by said lever for engaging with the ratchet-wheel, and gear connections between said ratchet-wheel and said rack, substantially  
45 as specified.

5. An inking attachment for a printing-press, comprising an ink-font having an outlet at its forward end, a follower operating in the font, a plunger removably engaging with  
50 the follower, a rack extended outward from the plunger, a pinion engaging with said rack, a gear-wheel on the shaft of said pinion, a ratchet-wheel, gear connections between said ratchet-wheel and said gear-wheel, a lever  
55 loosely mounted on the shaft of the ratchet-wheel, a part carried by a moving part of the press for engaging with said lever to operate it, a dog carried by the lever for engaging with the ratchet-wheel, and a back-stop dog  
60 engaging with the ratchet-wheel, substantially as specified.

6. An inking attachment for a printing-press, comprising a font having an outlet at its forward end, a follower operating in said  
65 font, a rack for forcing said follower forward, a ratchet-wheel, gear connections between said ratchet-wheel and the rack, a lever mounted to swing on the shaft of the ratchet-wheel, means for adjusting the throw of said  
70 lever, a device carried by a movable part of the press for actuating said lever in one direction, a dog carried by the lever for engaging with the ratchet-wheel, and means for shifting said dog out of operative connection  
75 with the ratchet-wheel, substantially as specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ROBERT NAUMANN.

Witnesses:

C. APT,

CHARLES APT.