

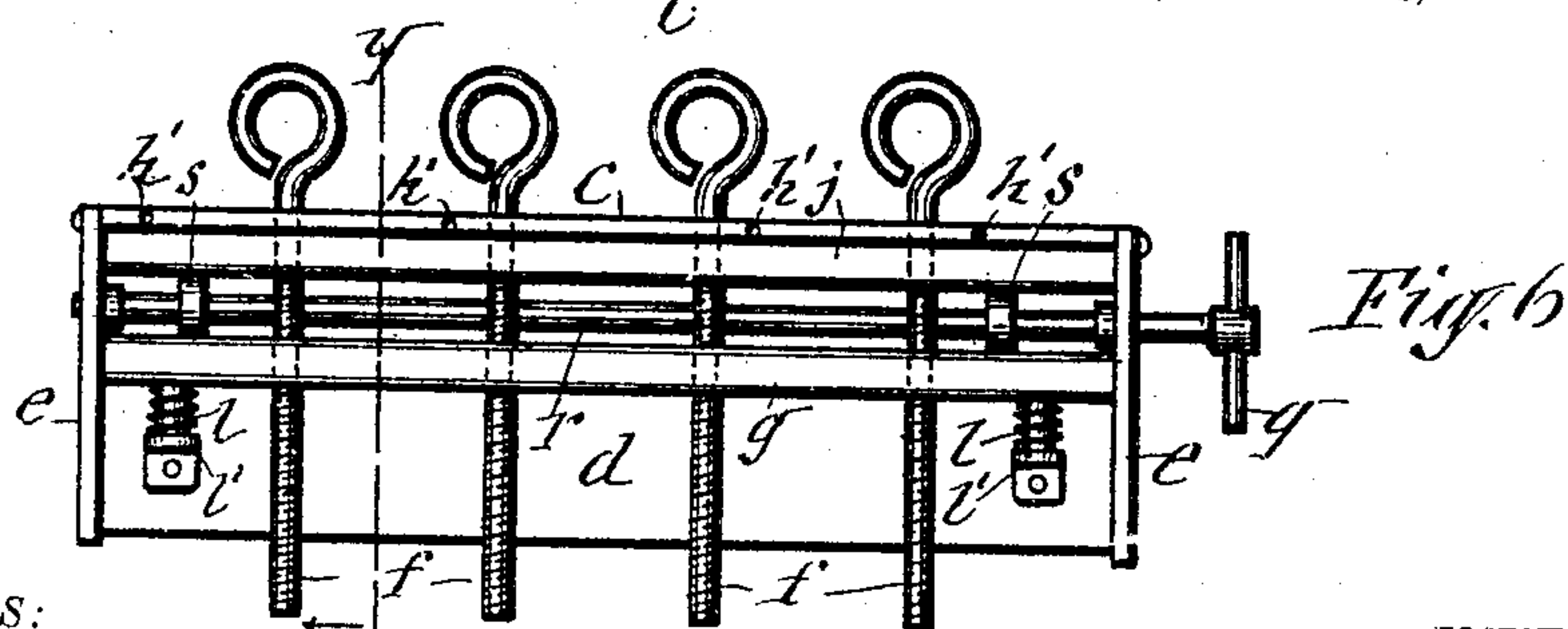
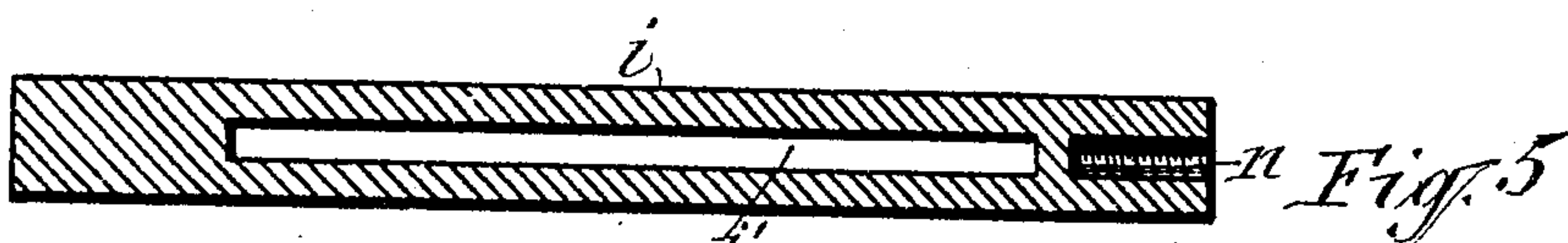
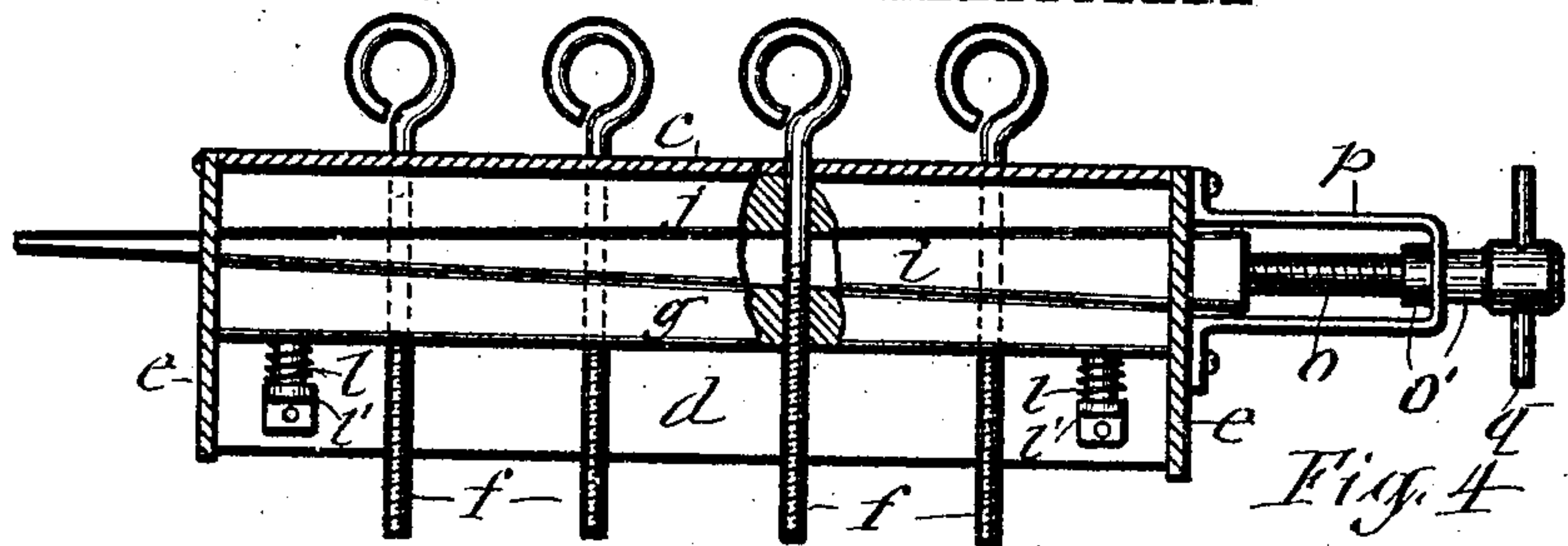
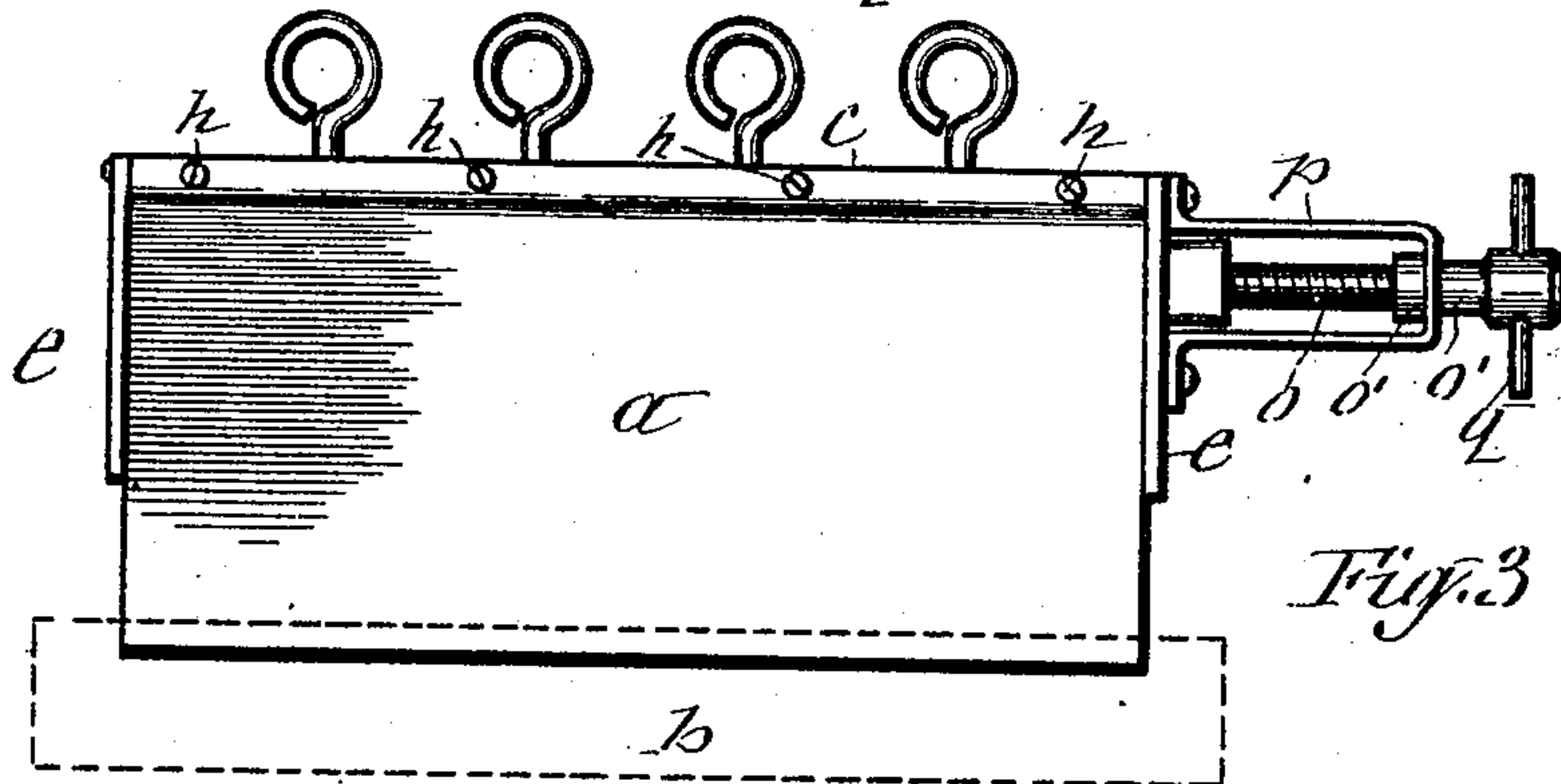
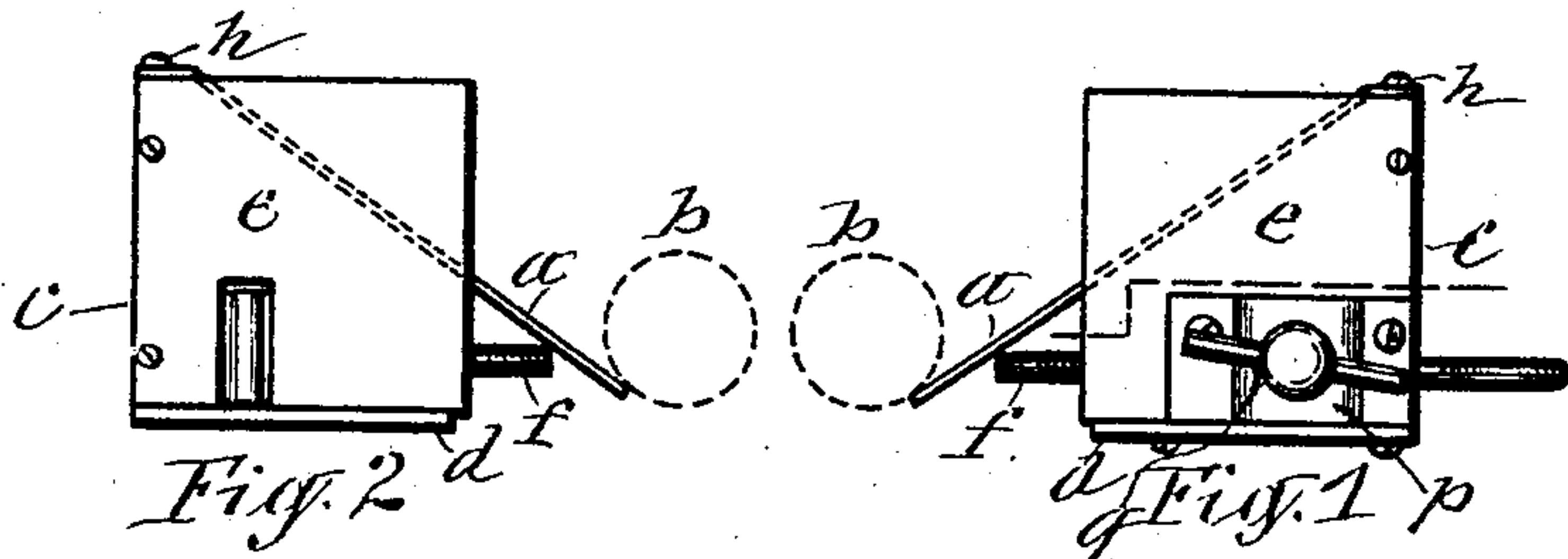
No. 835,784.

PATENTED NOV. 13, 1906.

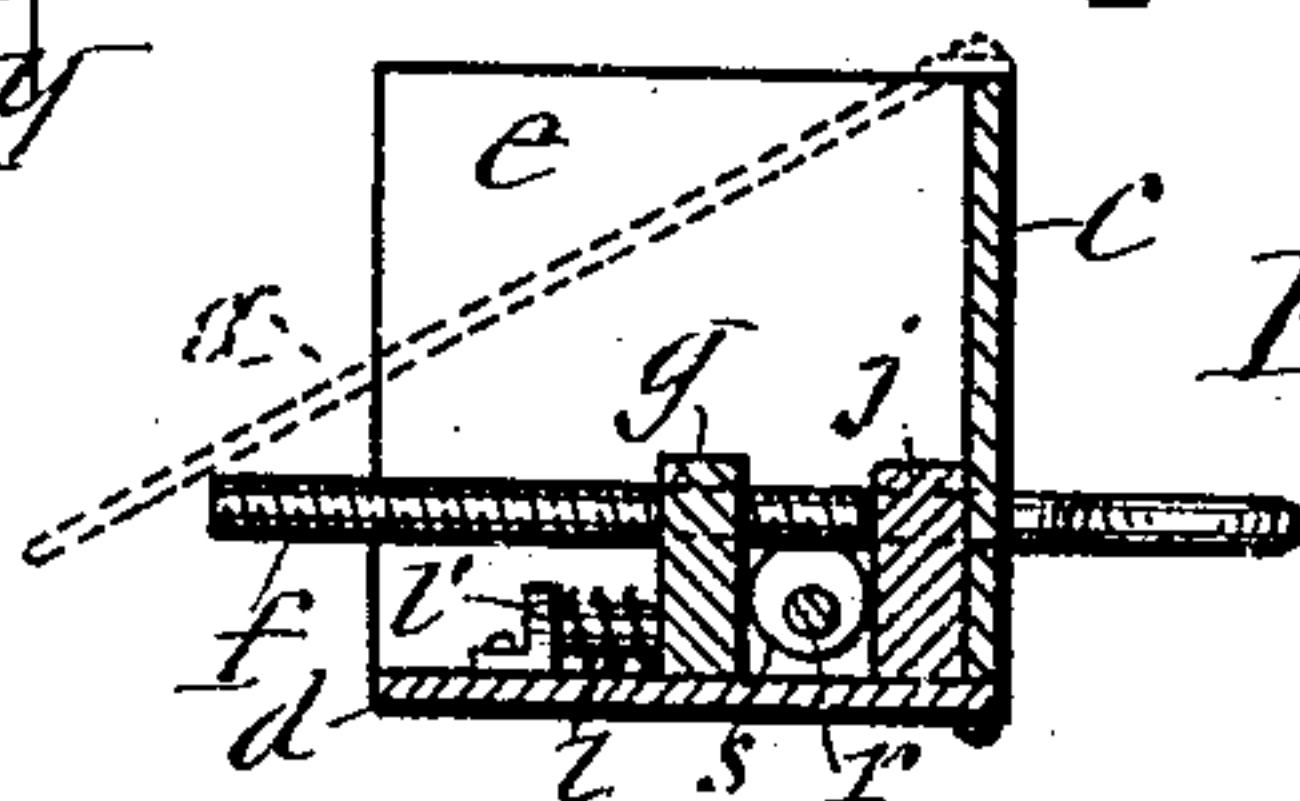
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INKING FOUNTAIN FOR PRINTING PRESSES.

APPLICATION FILED JAN. 4, 1906.



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INKING-FOUNTAIN FOR PRINTING-PRESSES.

No. 835,784.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, MATTHEW F. DEHLER, a citizen of the United States, and a resident of Syracuse, in the county of Onondaga, in the State of New York, have invented new and useful Improvements in Inking-Fountains for Printing-Presses, of which the following, taken in connection with the accompanying drawings, is a full, clear, and exact description.

The chief object of this invention is to provide simple, inexpensive, and efficient means for quickly and conveniently adjusting the ink-governing plate (usually termed the "knife") to its required position in relation to the fountain-roll which supplies the proper amount of ink to the printing-press.

In the accompanying drawings, Figures 1 and 2 are elevations of opposite ends of an ink-fountain embodying my invention. Fig. 3 is a plan view of the same. Fig. 4 is a horizontal section taken in a plane immediately beneath the ink-governing plate. Fig. 5 is a longitudinal section of the wedge shown in Fig. 4. Fig. 6 is a plan view of the interior of an ink-fountain embodying a modification of my invention, and Fig. 7 is a transverse section on the line Y Y in Fig. 6 viewed in the direction of the arrow.

a represents the usual plate or knife which governs the supply of ink to the fountain-roll *b*, which is supported in its position in any suitable manner and is immaterial to my invention, and therefore merely indicated by dotted lines. Said plate is connected at its rear edge to the top of the rear wall *c* of a stationary frame, which is formed with a bottom plate *d* and end plates *e e*. The plate *a* is inclined and has its front edge immediately under the ink-receiving fountain-roll *b* in the usual and well-known manner and is adjustably supported thereat by means of the screws *f f*, engaging at their ends the under side of the plate *a*, as shown in Figs. 1 and 2.

Prior to my present invention it has been customary to attach the said screws to the stationary back wall *c*, which was provided with screw-threaded perforations through which the rear ends of the screws extended. In consequence of said attachment each of the screws *f f* had to be turned, and thus moved longitudinally a proper distance to cause it to support the plate *a* in its requisite position in relation to the fountain-roll *b*.

Such manner of adjusting the said plate is found to be very slow and tedious and annoying to the pressman.

The purpose of my invention is to obviate the said objection, and to that end I employ a laterally-movable bar *g*, disposed longitudinally on the bottom plate *d* of the frame. To the top of the rear wall *c* of said frame is attached the rear edge of the plate *a*, preferably by means of screws *h h*, passing through perforations in the plate *a* and inserted in screw-threaded sockets *h' h'* in the top of the rear wall *c*. To the said movable bar *g* I attach the screws *f f*, so as to cause the entire set of said screws to be moved simultaneously with the movement of the bar. Said attachment of the screws is rendered adjustable by providing the bar *g* with screw-threaded perforations through which the screws pass. The rear end portion of each of said screws is smooth and slides freely through perforations in the back wall *c*.

Various means may be employed for moving the bar *g* laterally toward and from the front of the fountain, and I therefore do not limit myself specifically to the means shown in the accompanying drawings. I prefer, however, the employment of a longitudinally-tapered wedge *i*, disposed between the back of the bar *g* and the back rest *j*, which latter is seated stationary on the bottom *d* and back wall *c*, as shown in Fig. 4 of the drawings. The said wedge is provided with a longitudinal slot *i'*, through which the screws *f f* pass. I preferably taper the wedge on both sides and taper the adjacent sides of the bar *g* and back rest *j* reverse from the wedge, so as to produce a quick lateral movement of the bar *g* by the longitudinal movement of the wedge.

The inward movement of the wedge obviously pushes the bar *g* laterally toward the front of the ink-fountain, and a reverse movement of the wedge allows the bar *g* to move toward the rear of the fountain. To assist this rearward movement of the bar *g*, I employ suitable springs *l l*, interposed between the front of the bar and lugs *l' l'*, attached to the bottom plate *d*.

One end of the wedge *i*, preferably the larger end thereof, is provided with a longitudinal screw-threaded socket *n*, in which is inserted a screw *o*, journaled in a yoke *p*, attached to the exterior of the end wall *e*. The screw is prevented from moving longitudi-

nally by means of collars $o' o'$, secured to the screw at opposite sides of its bearing in the yoke.

q designates a lever or suitable handle by which to turn the screw o .

A modification of the means for moving the bar g is illustrated in Figs. 6 and 7 of the drawings, in which a shaft r is used in place of the wedge i . Said shaft is journaled in the end walls $e e$ and has attached to it eccentrics or cams $s s$, bearing on the back of the bar g , which in this instance is formed with parallel sides. By turning said shaft in one direction the eccentrics or cams $s s$ are caused to force the bar g toward the front of the fountain, and by a reverse movement of the said shaft the bar g is relieved from the pressure of the eccentrics or cams $s s$, and thus allowed to be moved rearward by force of the springs $l l$.

The screws $f f$ are attached to the bar g and move freely in the back-rest j and back wall c , as hereinbefore described.

What I claim is—

1. In an ink-fountain for printing-presses the combination with the ink-governing plate, of a laterally-movable bar disposed longitudinally at the rear of said plate, screws attached to said bar and bearing on the under side of the plate, and a wedge forcing said bar toward the plate as set forth.

2. In an ink-fountain for printing-presses the combination with the ink-governing plate, of a laterally-movable bar disposed longitudinally at the rear of said plate, screws attached to said bar and engaging the under side of the plate, a longitudinally-movable wedge forcing the bar toward the plate, and means for moving the wedge as set forth.

3. In a ink-fountain for printing-presses the combination with the ink-governing

plate, of a laterally-movable bar disposed longitudinally at the rear of said plate, screws adjustably attached to said bar and engaging the under side of the plate, means for moving the bar toward the plate, and springs pushing the bar from the plate as set forth.

4. In an ink-fountain for printing-presses the combination with the ink-governing plate, of a laterally-movable bar disposed longitudinally at the rear of said plate, screws attached to said bar and engaging the under side of the plate, a longitudinally-movable wedge engaging the back of the bar and provided with a screw-threaded longitudinal socket, and a longitudinally-confined screw journaled in the end of the fountain and inserted in the aforesaid socket as set forth.

5. In an ink-fountain for printing-presses the combination with the ink-governing plate, of a laterally-movable bar disposed longitudinally at the rear of said plate and provided with transverse screw-threaded perforations and with a longitudinally-tapering back, a stationary back rest tapered reverse from the taper of the aforesaid bar, a wedge interposed longitudinally between said bar and back rest and provided with a longitudinal slot and with a screw-threaded socket in its end, a yoke attached to the end of the fountain, a longitudinally-confined screw journaled in said yoke and inserted in the aforesaid socket, springs holding the movable bar in contact with the wedge, screws passing transversely through the said bar and slot of the wedge and supporting the aforesaid plate as set forth.

MATTHEW F. DEHLER.

Witnesses:

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