Jan. 18, 1927. 1,615,174

W. M. KELLY

FRONT GUIDE

Original Filed August 6, 1921

Fig. 1.

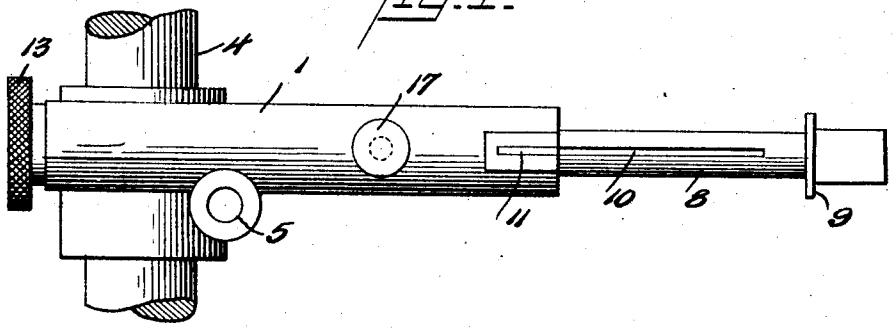


Fig. 2.

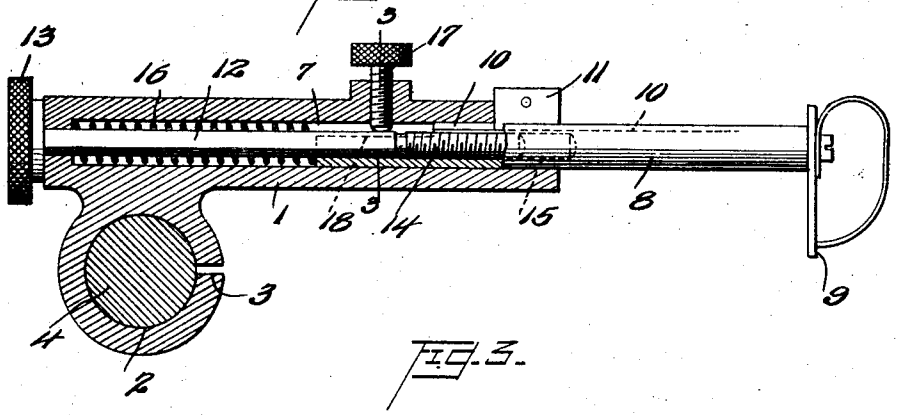
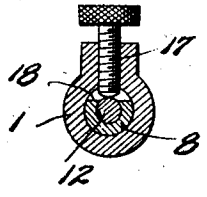


Fig. 3.



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UNITED STATES PATENT OFFICE.

WILLIAM M. KELLY, OF WESTFIELD, NEW JERSEY.

FRONT GUIDE.

Original application filed August 6, 1921, Serial No. 490,290, and in Great Britain July 27, 1922. Divided and this application filed June 13, 1925. Serial No. 36,942.

The present invention relates to front sheet guides for printing presses, and the object of the invention is to provide improved means for adjusting such guides and for securing them rigidly in adjusted position, thereby rendering them suitable for fine register printing.

This application is a division of my copending application for a printing press filed August 6, 1921, Serial No. 490,290.

The invention consists in the novel construction and arrangement of the parts of a sheet guide as hereinafter set forth and illustrated in the accompanying drawing in which:

Figure 1 is a top plan view of a complete front guide embodying my invention;

Figure 2 is a longitudinal sectional elevation thereof; and

Figure 3 is a cross-sectional view on the line 3—3 of Figure 2.

As shown, the guide consists of a body portion 1 formed with a transverse bore 2, the wall of which is split as at 3 and adapted to be clamped to a rock-shaft 4 by a screw inserted in an aperture 5. The body is also formed with a cylindrical recess 7, open at one end and closed at the other. A rod or spindle 8 is telescoped in this recess and at its front end carries the usual guide device 9. To prevent the rotation of the spindle 8, it is formed with a keyway 10 into which extends a key or plate 11 carried by the body. To adjust the spindle 8 with respect to the body, a rod 12 having a knurled head 13 extends through the closed end wall of the body into the recess 7 and has a threaded engagement 14 with the bore 15 of the spindle 8. By turning the head 13, the guide 9 will be adjusted inwardly or outwardly.

In order to hold the spindle 8 as far as the adjustment will permit, a spring 16, surrounding the rod 12 within the recess 7, bears at one end against the end wall of the body and at the other against the inner end of said spindle.

The novelty of the present invention consists in the means for adjusting and locking the parts rigidly in adjusted position. As shown, this consists of a locking screw 17 threaded through a wall of the body and bearing at its inner end on the rod 12, the spindle 8 having a portion of its wall cut away as at 18 (Figure 3), to permit the screw to bear directly upon the rod 12. It will be seen that the locking action of the screw 17 forces rod 12 against the spindle 8, thereby frictionally locking these parts together, and also forces said spindle into frictional contact with the inner wall of the recess 7. In this manner, a single lock screw firmly secures the operative parts of the device in place and insures against any displacement of the guide in its support thus making the guide suitable for fine register printing.

Having thus described the invention, what is claimed as new and desired to be secured by Letters Patent is:

1. A front guide including in combination, a body part, a guide member adjustably carried by said body, a member to adjust said guide member, one of said members being threaded within the other, the outer of said members having a portion cut away adjacent said thread exposing the inner member, and a set screw on the body extending through said cut away portion and bearing on the inner member to lock both members in adjusted position, by clamping the outer member between the inner member and the body part.

2. A front guide including in combination, a body part having a cylindrical recess, a guide member projecting from said body and slidable in said recess, means to hold said guide member against rotation, an adjusting member operable at the other end of said body and threaded in the inner end portion of said guide member, a spring within the recess surrounding said adjusting member and acting to project the guide member, said guide member being cut away, leaving a longitudinal slot at its inner end portion exposing the adjusting member, and a set screw carried by the body projecting through said slot and bearing on the inner member to lock both members in adjusted position, by clamping the outer member between the inner member and the body part.

In testimony whereof I hereunto affix my signature.

WILLIAM M. KELLY.