

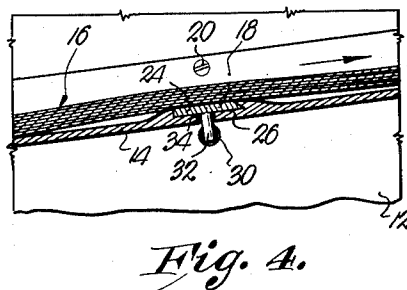
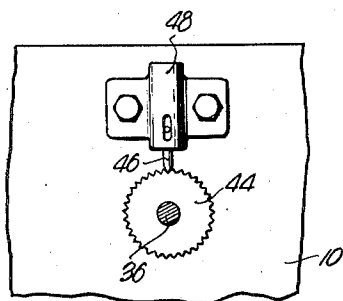
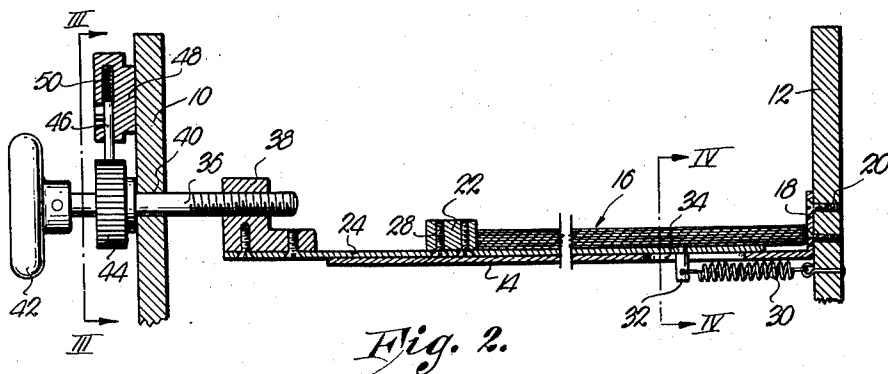
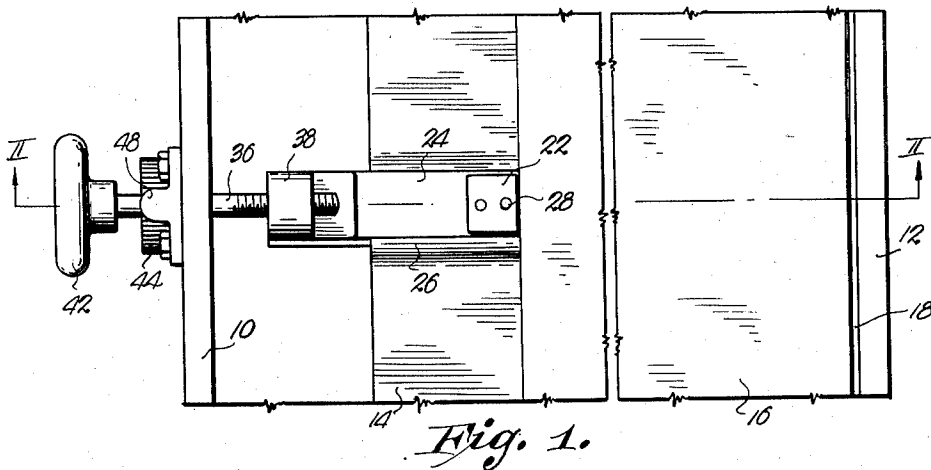
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CONTROL FOR PRINTING PRESS SIDE GUIDE

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2,826,412

CONTROL FOR PRINTING PRESS SIDE GUIDE

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1 Claim. (Cl. 271—86)

This invention relates to improvements in printing presses and particularly to that part thereof having to do with the feeding of material to be printed, the primary object being to provide a control for the side guide of a feed table to simplify the accurate positioning of the side guide according to the width of the material being fed along the said table.

It is the most important object of the present invention to provide in combination with a feed table for printing presses, a control for a side guide that includes rotatable structure readily accessible to the operator and operable upon rotation thereof to impart a pull on the side guide against the action of a spring that yieldably biases the guide toward an opposed stationary guide or a side frame forming a part of the press.

Other objects include the way in which the side guide is mounted on a reciprocable plate, slidably carried by the feed table for facilitating the operable connection of the control with the side guide; the way in which the control is provided with ratchet-pawl mechanism to yieldably hold the side guide in selected positions; and many additional objects including details of construction to be made clear as the following specification progresses.

In the drawing:

Figure 1 is a fragmentary plan view of a portion of a conventional printing press showing the control for the side guide made pursuant to the instant invention.

Fig. 2 is a fragmentary, cross-sectional view taken on line II—II of Fig. 1.

Fig. 3 is a fragmentary, cross-sectional view taken on line III—III of Fig. 2; and

Fig. 4 is a fragmentary, cross-sectional view taken on line IV—IV of Fig. 2.

The particular type of printing press with which the improvements of the instant invention are adapted to be used is of no particular importance and therefore, there is shown in the drawing merely side frames 10 and 12 forming a part of such printing press, together with feed table 14 disposed between the side frames 10 and 12 and adapted to receive material to be printed such as flat sheets 16 superimposed on the table 14.

Feed table 14 is provided with an upturned flange 18 along one edge thereof serving not only to mount the table 14 on the innermost face of side frame 12 through use of fasteners 20, but serving as the stationary side guide for material 16.

The width of the material 16 determines the position of a movable side guide 22 that is mounted for reciprocation toward and away from the stationary guide 18 or the side frame 12 through the medium of a slide member 24. The slide member 24 is in the nature of an

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elongated plate reciprocably carried by the table 14 for slidably receiving the plate 24.

Fasteners 28 are employed for attaching the guide 22 to the slide 24 and these two parts 22 and 24 are yieldably held biased toward the side frame 12 through the medium of a spring 30 interconnecting the side frame 12 and the slide plate 24. To this end, a pin 32 connected to the plate 24 and depending therefrom through slot 34 in table 14, receives one end of spring 30.

The control for imparting a pull upon the slide plate 24 against the action of spring 30, includes rotatable structure in the nature of a bolt 36 receiving a follower nut 38 rigidly secured to the plate 24. Bolt 36 is received loosely within an opening 40 in the side frame 10 and is provided with a hand wheel 42 that is readily accessible to the operator of the press.

It is now seen that upon rotation of the hand wheel 42 in one direction, the follower nut 38 is caused to move toward the side frame 10, thereby increasing the distance between the side guide 22 and the side frame 12.

In order to yieldably hold the movable guide 22 in selected positions, there is provided ratchet-pawl mechanism interconnecting the rotatable structure 36 and the side frame 10. This mechanism includes a ratchet-wheel 44 rigid to the bolt 36, together with a pawl 46 carried by a housing 48 mounted on the outer face of frame 10. A spring 50 within the housing 48 yieldably holds the pawl or pin 46 biased into meshing relationship with the peripheral teeth of ratchet wheel 44. It is apparent that wheel 42 may be rotated in either direction to adjust the position of side guide 22 and that during such rotation pawl 46 clears the teeth of ratchet wheel 44 because of the action of spring 50.

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

In a printing press having a pair of relatively stationary, vertical side frames, and a generally horizontal, feed table between the frames and mounted rigidly relative thereto, the combination of a generally horizontal, plate-like member slidably mounted upon and carried by the feed table for linear reciprocation toward and away from one of the side frames; an upstanding side guide having a vertical edge opposite said one side frame and mounted on the slide member for reciprocation with the latter toward and away from said one side frame; spring means interconnecting said one side frame and the slide member for yieldably biasing the latter toward the one side frame; manually manipulable, screw structure rotatably carried by the other side frame; and means on the slide member threadably receiving the structure and directly coupling said structure with the slide member for pulling the latter toward the other side frame against the action of said spring means upon rotation of said structure in one direction, thereby increasing the distance between the side guide and the one side frame, said slide member being adapted to receive and carry a stack of paper thereon between the side guide and the one side frame.

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