

Oct. 22, 1935.

L. HOYSRADT

2,018,305

PEDAL LOCK FOR PRESSING MACHINES

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2 Sheets-Sheet 1

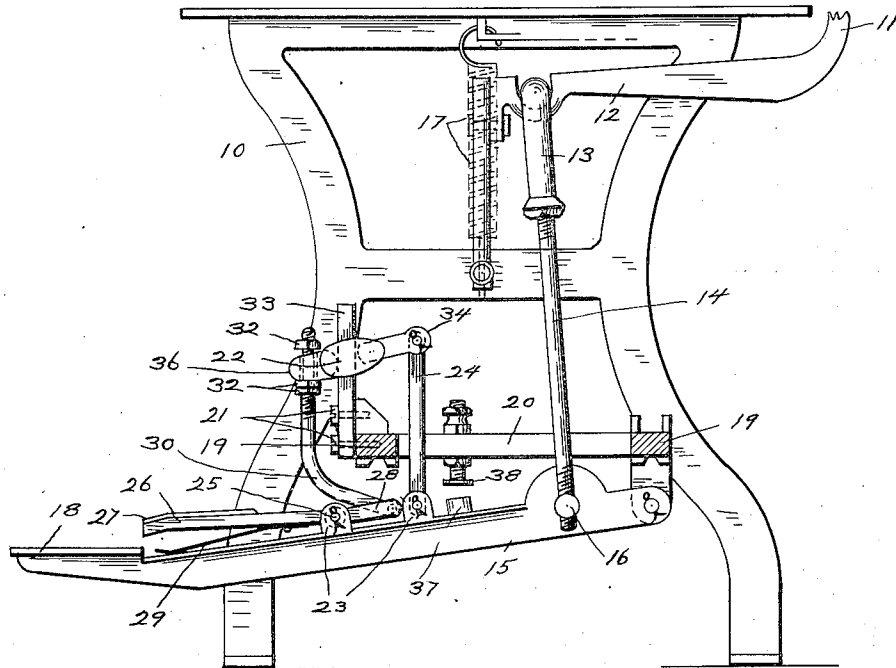


Fig. 1

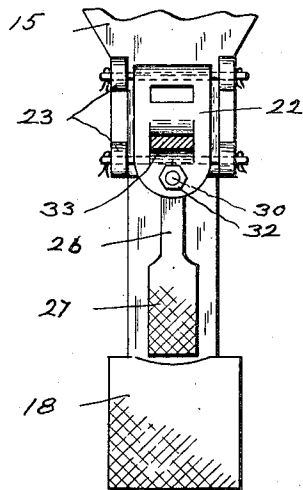


Fig. 2

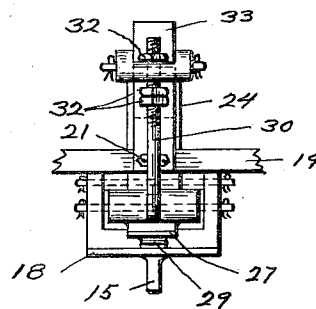


Fig. 3

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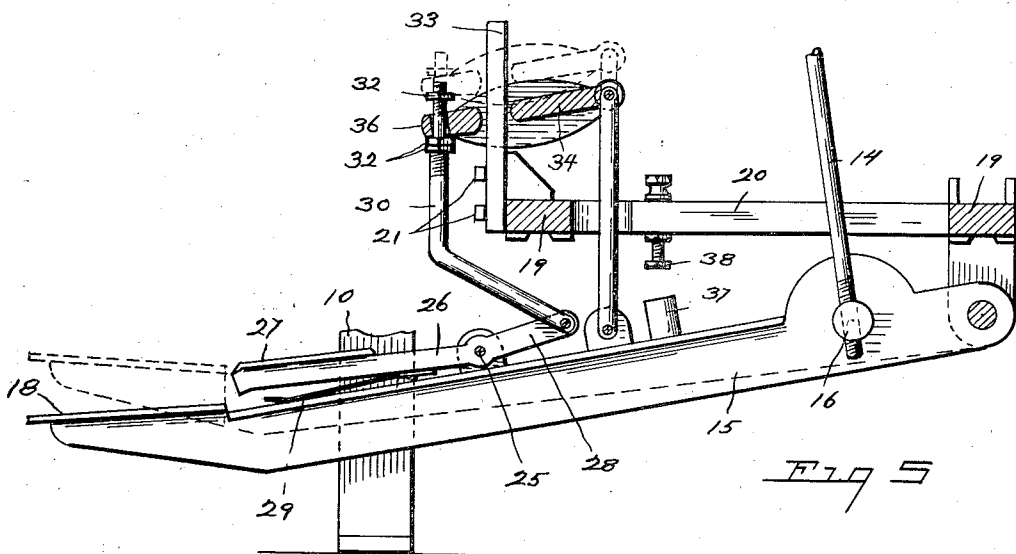
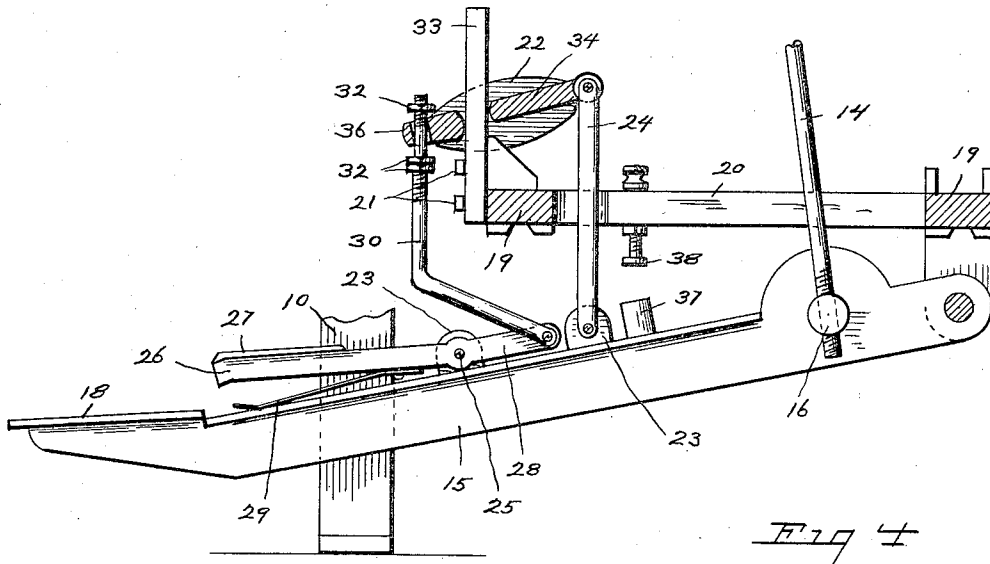
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## UNITED STATES PATENT OFFICE

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## PEDAL LOCK FOR PRESSING MACHINES

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Application October 17, 1934, Serial No. 748,658

3 Claims. (Cl. 74—539)

This invention relates to a pedal lock for pressing machines or the like, and more particularly to machines used for pressing clothes where the pressing iron is brought into contact with the article to be pressed upon the table or buck, and with sufficient pressure to effect the ideal pressing state.

During the pressing operation it is very important that an even pressure be exerted and maintained for a predetermined period of time, and as the pressing operating lever is operated by the foot of the operator, it is essential that the operator be relieved from the necessity of holding down the foot lever during this interval of time, and it is also very important that during this interval of time that the foot pedal be locked from accidental movement.

While I am aware that devices have been made for this purpose, they do not have a fine adjustment, or sure locking means that is required in actual use and I have therefore devised a construction that will include the following objects.

To provide a simple device that may be either incorporated into the design of the machine when built, or in the form of an attachment for those now in use.

Another object of the invention is to provide means whereby the adjustment of the pressure may be determined during the act of pressing.

Another object of the invention is to provide means for the quick release of the locking means.

Another object of the invention is to provide means whereby a very fine adjustment of the pressure and a positive locking device for the same is provided.

With these and other objects in view, my invention consists in certain novel construction and combination of parts as will hereinafter be fully described and claimed, and further illustrated in the accompanying drawings which form a part hereof and in which like figures of reference refer to corresponding parts in all of the views, and it is understood that slight changes may be made without departing from the spirit of the invention.

In the drawings:

Figure 1 shows a side elevation of the device, partly in section, and showing the pedal for operating the pressing arm, and the pedal lock.

Figure 2 shows an enlarged detail top plan view of the pedal with the pedal lock and releasing lever.

Figure 3 shows an end view of the same.

Figure 4 shows an enlarged side view, partly

in section, of the pedal, and locking device in a locked position.

Figure 5 is a similar view, but showing the parts in a released position, and in dotted lines, the same parts when the pedal is raised.

Referring to the drawings:

The usual presser frame sides are indicated by the numeral 10, and to this frame is pivoted in some suitable manner the presser lever 11 which is formed below its pivot point with the arm 12, the forward end of which is engaged by the yoke 13 attached to a rod 14 which is secured to the foot lever 15 as at 16; the foot lever 15 being pivoted at its rear end to the frame 10; said foot lever 15 being normally retained in a raised position by the spring 17 which is attached both to the end of the presser lever 11 and to the frame 10; the forward end of the foot lever 15 terminating in a foot plate 18.

Near the lower part of the frame 10 and adjacent to the pivot point 16 of the foot lever 15, are the two longitudinal brace rods 19, which have secured thereto a transverse bar 20 in vertical alignment with the foot lever 15 and above it.

To the forward brace rod 19 by the bolts 21 is secured in a rigid manner an upright post, which is here shown as rectangular in cross-section, but which may be of any desired shape and size, and of any suitable material, either bare or covered to effect a friction grip for the locking link 22.

The foot lever 15 is formed on its upper edge with a boss or flange 23 to the rear end of which is pivoted the lower end of a link 24; while the forward end of the flange 23 is pivoted as at 25 the release pedal 26, which is also formed with a foot plate 27, a rear portion 28 and a leaf spring 29 secured to its lower face and in engagement with the foot lever 15 to retain the release lever in a normally raised position.

To the rear end of the release lever pedal 26 is pivoted the lower end of a curved rod 30, the upper end of which is provided with the threads 31 and the adjustment nuts 32.

The friction griplink 22 is formed with the opening designed to embrace the friction locking post 33; the opening being slightly larger than the diameter of said post; while said link 22 is formed with a rear extending portion 34 that is pivoted to the upper end of the link 24, and a forward portion 35 that is formed with a transverse hole of slightly larger diameter than the diameter of the rod 30 which is mounted therein and allowed movement therein by the nuts 32.

It will thus be seen that the friction link 22 is mounted on the link 24 and the rod 30 and has a sliding movement up and down on the rod or post 33; the edges of the inner ends of said link 22 being rounded as indicated to effect a friction hold upon the post 33 when the link is inclined or tilted, but being free to move upon the post when the link 22 is moved into a position more at right angles to the post.

10 To the rear of the flange 23 the foot lever is provided with a bumper 37 for engagement with an adjustable stop 38 mounted in the transverse bar 29 for limiting the upward movement of the foot lever 15.

15 In the operation of the device, downward pressure being placed on the foot plate 18 of the foot lever 15, said foot lever 15 will be moved downward, and with it the rod 14 operating the lever 11—12 and the press arm pressing iron, while at the same time the link 24 will carry the friction link 22 downward upon the friction gripping post 33; the position of the curved rod 30 remaining the same owing to the spring 29 which is between the foot lever 15 and the release lever 26.

25 Upon the instant that the foot pressure is removed, the slightest upward movement of the foot lever 15, due to the action of the spring 17 will tilt the link 22, causing its edges to grip the sides of the post 33 and prevent any further upward movement of the foot lever 15 with respect to the frame.

To release the lock, a slight pressure of the operator's toe upon the release foot plate 27 will cause the release lever 26 to move upward at its rear end raising the rod 30 and the forward end of the link 22 bringing it back to its original position where it will freely pass by the sides of the post 33, thus allowing the foot lever 15 to raise into its released position carrying the pressing iron upward or free from contact with the article upon the buck.

40 Having thus described my invention, what I claim as new and desire to secure by Letters Patent, is:

1. In a pedal lock for pressing machines, the combination with a frame and a pressing arm having a foot operated lever, of a frictional locking member mounted on said frame, a gripping link coacting with said locking member, supporting means for said gripping link pivoted to said foot lever and to said link, a release pedal pivoted to said foot lever, and means adjustably attached to said link and pivoted to said release pedal for tilting said link with respect to said friction locking member to release the same therefrom.

2. In a pedal lock for pressing machines, the combination with the machine frame and a pressing arm having an operating lever, of a locking member rigidly mounted on said frame, a frictional gripping link adjustably mounted on said locking member, means pivoted to said operating lever and adjustably attached to said gripping link for moving the same on said locking member, a releasing means pivoted on said operating lever, and a link attached to said releasing means and to said frictional gripping link for disengaging its frictional grip upon said locking member.

3. In a pedal lock for pressing machines, and in combination with the machine frame and its presser arm, of a foot operated presser arm lever pivoted to said frame and having an upper flange formed thereon, an upright locking post secured to said frame above said foot lever, a foot operated release pedal pivoted to the flange on said foot lever and normally held in a raised position, a frictional gripping link mounted on said locking post, a link pivoted to said flange and to said gripping link for supporting said gripping link and adjusting the same on said locking post, and a rod pivoted to said release pedal and to said gripping link for supporting the same and by the depression of the release pedal breaking the frictional grip between the gripping link and the locking post.

LOUIS HOYSRADT.