H. LINDESTROM.

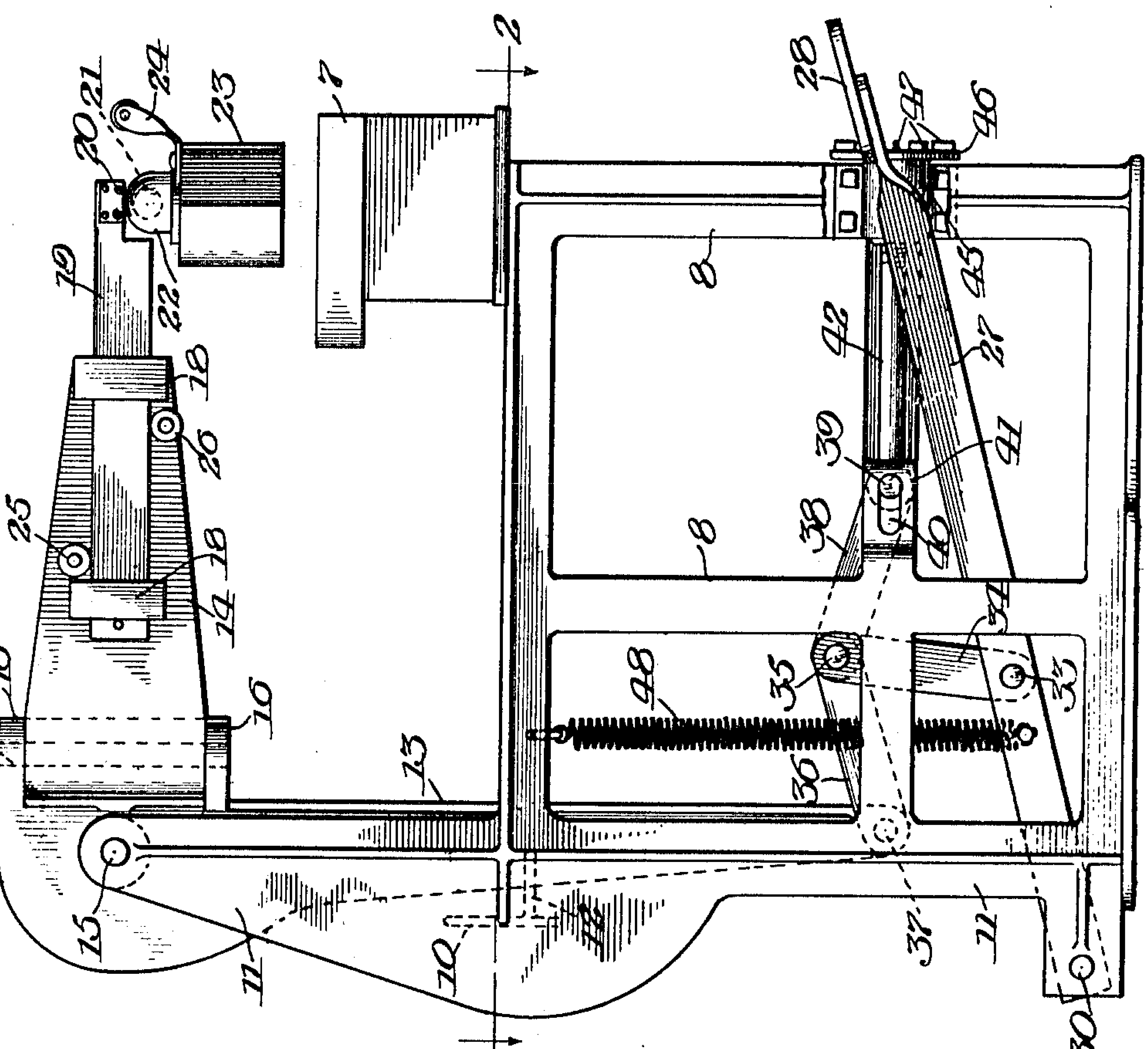
PRESSING MACHINE.

APPLICATION FILED OCT. 11, 1909.

954,314. Patented Apr. 5, 1910.

2 SHEETS—SHEET 1.

Fig. 1.



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2 SHEETS—SHEET 2.

Fig. 2.

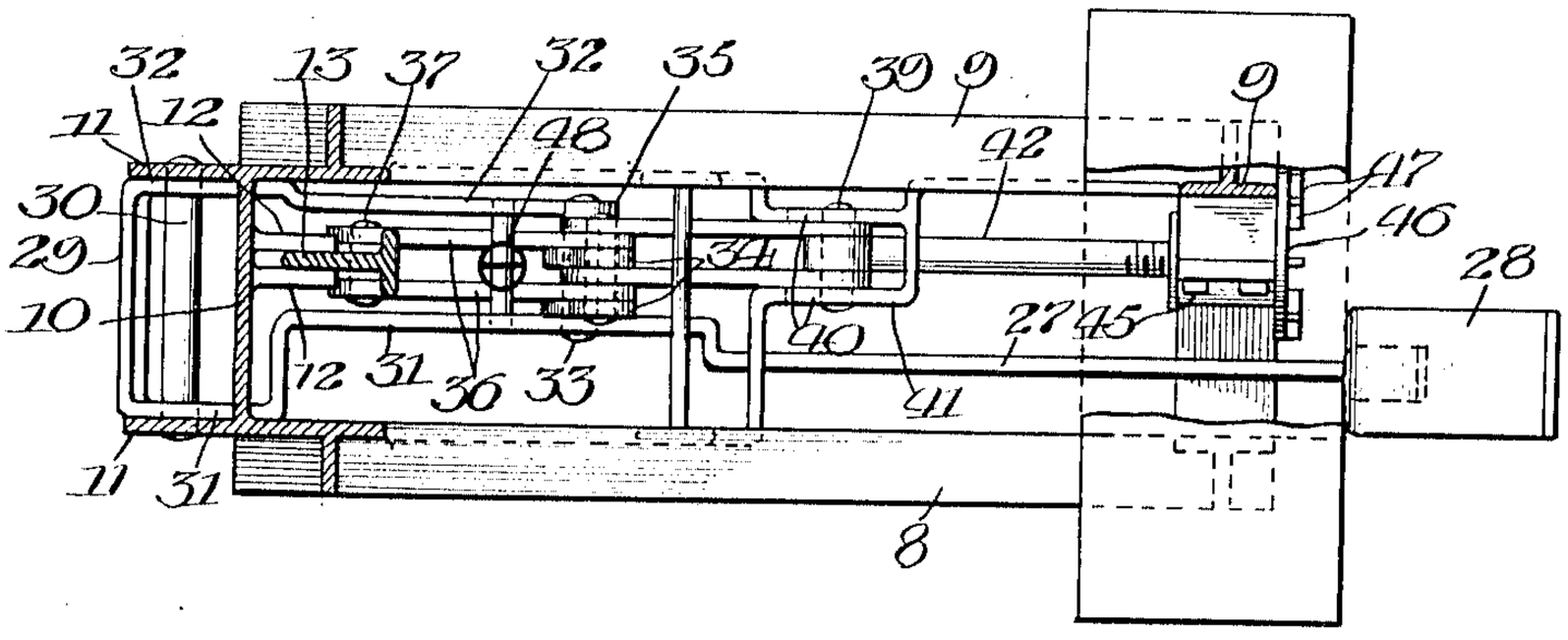
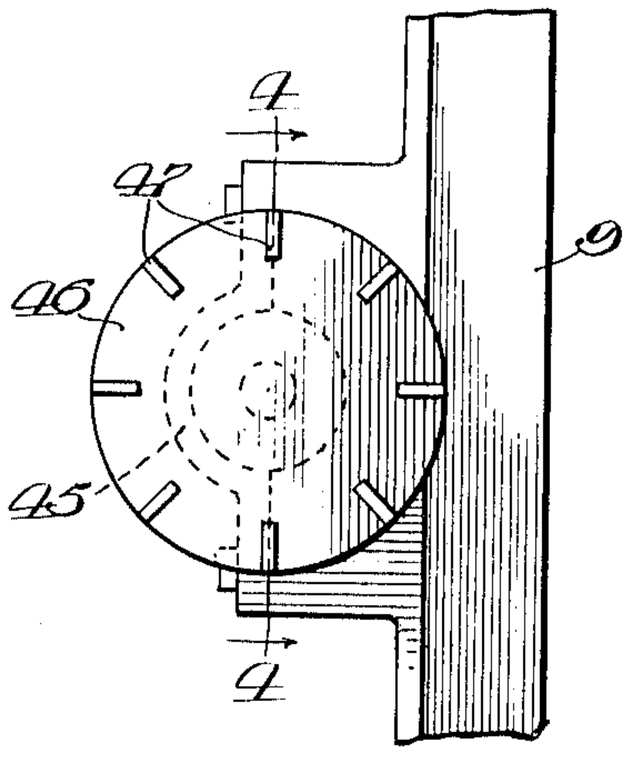
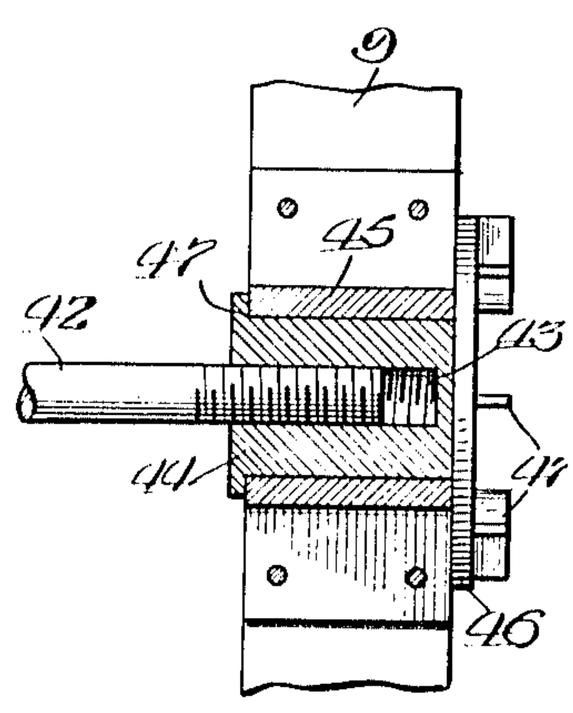


Fig. 3.

Fig. 4.





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UNITED STATES PATENT OFFICE.

HJALMAR LINDESTROM, OF CHICAGO, ILLINOIS.

PRESSING-MACHINE.

954,314. Specification of Letters Patent. Patented Apr. 5, 1910.

Application filed October 11, 1909. Serial No. 522,143.

To all whom it may concern:

Be it known that I, HJALMAR LINDESTROM, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Pressing-Machines, of which the following is a specification.

This invention relates to improvements in that type of machines used for pressing cloth or garments, and consists in certain peculiarities of the construction, novel arrangement and operation of the various parts thereof, as will be hereinafter more fully set forth and specifically claimed.

The main object of the invention is to provide a cloth or garment pressing machine, which shall be simple and inexpensive in construction, strong, durable and effective in operation, and so made that the desired amount of pressure may be applied to the smoothing-iron by foot power, while said iron may be manipulated by the hand of the operator.

Another object of the invention is to so construct the apparatus that the pressure of the iron on the cloth or garment can be readily regulated so as to afford a high degree of pressure or less when desired, and with the expenditure of a very small amount of foot-power.

Another object of the invention is to provide means for adjustably supporting the iron with respect to the ironing-board or block to the end, that the proper pressure may be applied to the cloth or garment by the iron, and so that the latter may be swung from over the board to permit the cloth and garment being properly placed thereon.

Other objects and advantages of the invention, will be disclosed in the subjoined description and explanation.

In order to enable others skilled in the art to which my invention pertains, to make and use the same, I will now proceed to describe it referring to the accompanying drawings in which—

Figure 1, is a view in side elevation of a pressing machine embodying the invention, showing the parts in position ready for use. Fig. 2, is a plan sectional view taken on line 2—2 of Fig. 1, looking in the direction indicated by the arrows. Fig. 3, is an enlarged view in front elevation of a portion of the supporting frame showing the means for regulating the pressure of the iron. And Fig. 4, is a view partly in section and partly in elevation taken on line 4—4 of Fig. 3, looking in the direction indicated by the arrows.

Like numerals of reference, refer to corresponding parts throughout the different views of the drawings.

The reference numeral 7, designates the pressing-board or block which is horizontally mounted on the upper front portion of the supporting frame, which in the present instance is shown as consisting of two upright frame like side pieces 8, and 9, which are placed side by side in parallelism with one another, but at a sufficient distance apart to encompass the lower movable parts of the device. The rear portion of the side pieces 8, and 9, of the frame are connected together by a cross piece or portion 10, and which has at each of its side edges a vertical flange or extension 11, which project a considerable distance above the top of the frame, as is clearly shown in Fig. 1, of the drawings. These upward extensions or flanges 11, are preferably made integral with the rear portions of the sides 8, and 9, of the frame, as well as integral with the vertical piece 10, as will be readily understood by reference to Fig. 2, of the drawings.

Extended forwardly of the cross piece 10, near the top of the sides 8, and 9, of the frame, are two arms 12, which embrace a portion of the upright 13, which carries the iron supporting arm 14, and which is fulcrumed near its upper end, as at 15, on the upper portion of the extensions 11, and between the same. The front upper portion of the upright 13, is provided with two spaced apart and forwardly extended lugs 16, between which is pivotally secured on a suitable rod or pin 17, the rear end of the iron supporting arm 14, which has on one of its sides guide clips 18, for the retention and operation of an adjustable bar 19, on the front end of which is a pendant 20, having on its lower portion a ball or spherical enlargement 21, to fit within the correspondingly shaped cavity of a socket piece 22, which is secured to the upper surface of the iron 23, which iron is preferably of such construction as may be heated by means of gas supplied through a tube (not shown) leading from a supply of gas to a suitable burner within the iron. This iron is provided with an upwardly and laterally extending handle 24, to be used for manually operating the

same, for it is apparent that its position may be changed, as desired by reason of the joint provided by the ball 21, and socket 22, at the end of the adjustable bar 19, which supports them. The adjustable bar 19, is movably held in position on the arm 14, by means of the straps or clips 18, and also by means of two rollers 25, and 26, the former of which is journaled on the arm 14, above the bar 19, and near the rear strap 18, while the other roller 26, is journaled on the arm 14, near the front strap 18, and below the adjustable bar. Fulcrumed at its rear end to the lower portions of the flanges or extensions 11, of the supporting frame, and between said extensions, is a foot-lever 27, which is extended at its front end between the front parts of the sides 8, and 9, of the frame and is provided at said end with a pedal 28, on which the foot of the operator may rest.

As is clearly shown in Fig. 2, of the drawings, the foot-lever 27, is formed with a loop 29, through the rear portion of which is passed the fulcrum pin 30, for said lever. The sides 31, and 32, of the loop 29, are extended forwardly and are disposed at their rear portions against or close to the inner surfaces of the extensions or flanges 11, thus preventing any lateral or wabbling movement of the foot lever, and besides providing a bearing at each end of the loop thereof. The side 32, of the loop 29, terminates at a distance in front of the upright 13, and is connected to the side 31, by means of a transverse rod 33, on which are secured the lower ends of a pair of links 34, which are connected at their upper ends to a transverse bolt or rod 35, to which are secured the front ends of a pair of links 36, the rear ends of which are pivotally secured as at 37, to the lower portion of the upright 13.

Secured at their rear ends to the transverse rod 35, are a pair of links 38, the front ends of which are secured to a transverse pin or rod 39, which is movably mounted in the slots 40, of a bracket 41, extended inwardly from the adjacent surfaces of the sides 8, and 9, of the main frame. Loosely secured at its rear end to the rod or pin 39, is an adjusting rod 42, which has its front portion screw-threaded to engage the screw-threaded opening 43, of an adjusting nut 44, which is mounted for rotation in a suitable bearing 45, on the front portion of one of the side pieces of the main frame and usually on the side piece thereof, indicated by the reference numeral 9, and at a point near the pedal 28, when the same is in its normal position. The outer or front end of the nut 44, is provided with a disk 46, which has on its outer surface a series of projections 47, against which the foot of the operator may be placed when it is desired to turn the nut 44 in the operation of adjusting the toggle which comprises the members 34, 36, and 38, united together as above described. The rear end of the nut 44, is provided with a flange 47, which will rest against the rear portion of the bearing 45, which flange in conjunction with the disk 46, will serve to hold the nut in position in its bearing, yet so as to permit it to turn therein.

From the foregoing and by reference to the drawings, it will be clearly understood and readily seen that the upright 13, is fulcrumed at its upper portion only, and as it is connected at its lower portion by means of the toggle members to the foot lever, it can be tilted on its fulcrum, so as to force the outer or front end of the adjustable bar 19, downwardly with powerful pressure by very slight expenditure of power applied to the foot lever by means of the foot of the operator, or otherwise. When it is desired to increase or diminish the pressure of the iron 23, on the cloth, it is evident that by turning the disk 46, and nut 44, in the proper direction, the adjusting rod 42, will be extended or retracted, thus moving the lower portion of the upright 13, forwardly or backwardly and in such a manner as to tilt it on its fulcrum and without changing the relative position of the toggle members.

By my improved construction, it is apparent that as the adjustable bar 19, which carries the iron, is movably secured on the side of the arm 14, that said bar may be extended at its rear end rearwardly beyond the pivot 17, which could not be done if the bar 19, operated in a central and longitudinal groove formed in the arm 14, which carries said bar. It is further obvious that by my improved construction, the rollers 25, and 26, for the bar 19, can be easily placed in position on the supporting arm 14, and that ample room for the handling and deposit of the cloth is provided between the pressing block 7, and the rear portion of the machine. To retract the foot lever to its normal position as shown, in Fig. 1, of the drawings, a spring 48, is secured at one of its ends to the upper portion of the supporting frame and at its other end to the foot lever.

While I have shown the toggle-joint or connection which unites the lower portion of the upright 13, with the foot-lever 27, and adjusting rod 42, as composed of the several pairs of links or members 34, 36, and 38, yet it is apparent that only one link of each pair, may be employed and the same result attained. It is also evident that the invention is susceptible of considerable modification without departing from the principle and spirit of the invention, and for this reason I do not wish to be understood as limiting myself to the exact construction herein shown and described.

Having thus fully described my invention

what I claim as new and desire to secure by Letters Patent is—

1. In a pressing machine, the combination with a supporting frame, of an upright fulcrumed at its upper portion above said frame, a foot-lever fulcrumed at one of its ends near the lower end of the upright, a toggle-joint connected at one of its ends to the lower portion of the upright, a slotted support for the other end of the toggle-joint, an adjusting rod connected at one of its ends to that end of the toggle-joint adjacent to the slotted support and having its other end screw-threaded, a nut engaging the screw-threaded portion of the supporting rod and mounted for rotary but against longitudinal movement, and a connection uniting the toggle-joint and foot-lever.

2. In a pressing machine, the combination with a supporting frame, of an upright fulcrumed at its upper portion above said frame, a spring actuated foot-lever fulcrumed at one of its ends near the lower end of the upright, a toggle-joint connected at one of its ends to the lower portion of the upright, a slotted support for the other end of the toggle-joint, an adjusting rod connected at one of its ends to that end of the toggle-joint adjacent to the slotted support and having its other end screw-threaded, a nut engaging the screw-threaded portion of the adjusting rod and mounted for rotary but against longitudinal movement, said nut having on one of its ends a disk provided with projections on which the foot of the operator may be placed when turning the disk, and a connection uniting the toggle-joint and lever.

3. In a pressing machine, the combination with a supporting frame having at its rear portion vertically disposed and spaced apart extensions, of a cross-piece connecting said extensions between their ends and provided with forwardly extended and spaced apart arms, an upright member located between said extensions and between said arms and fulcrumed at its upper portion on the upper ends of the extensions, an arm pivotally mounted for lateral movement on the upper portion of the upright, a bar adjustably supported on said arm, an iron loosely connected to the front portion of said bar, a lever fulcrumed at one of its ends near the lower end of the upright, a toggle-joint pivotally connected at one of its ends to the lower portion of the upright and loosely supported at its other end to permit of longitudinal movement, and means connected to the toggle-joint to adjust the movement of the upright through the toggle-joint.

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