

June 5, 1934.

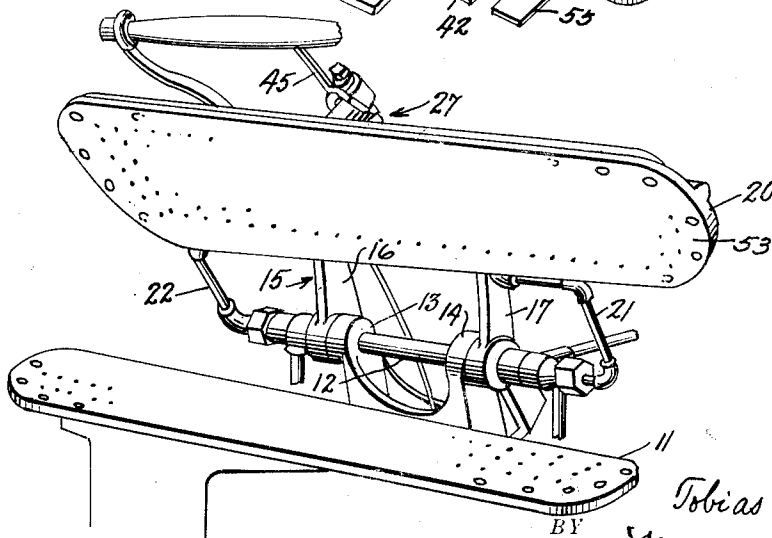
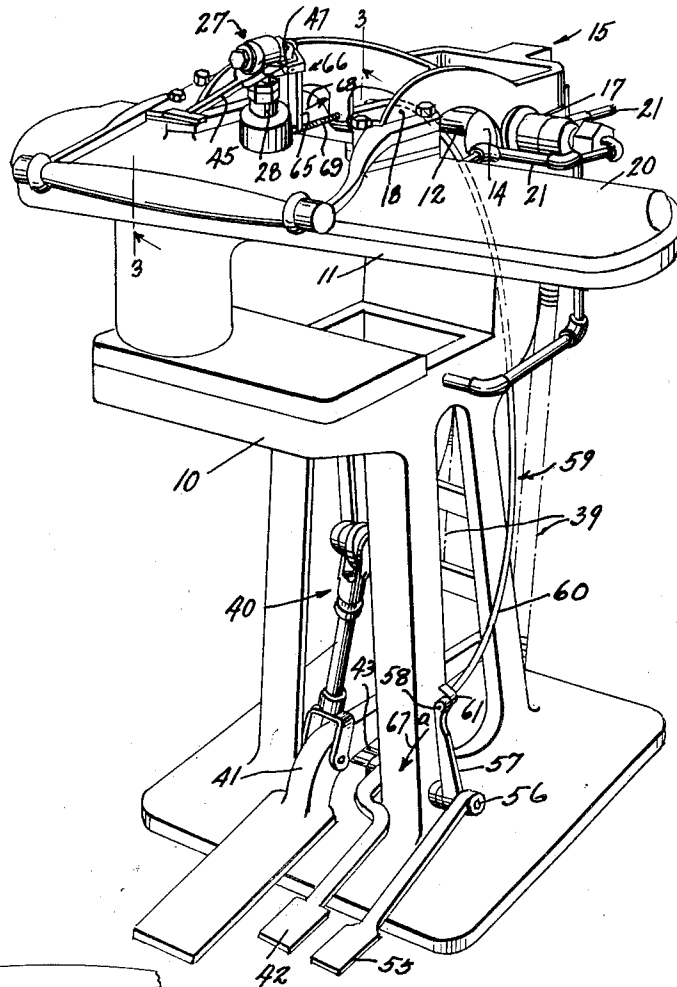
T. G. JASPER

1,961,611

PRESSING MACHINE

Filed Nov. 19, 1931

2 Sheets-Sheet 1



INVENTOR
Tobias G. Jasper.
Maurice Block
ATTORNEY

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Fig. 3

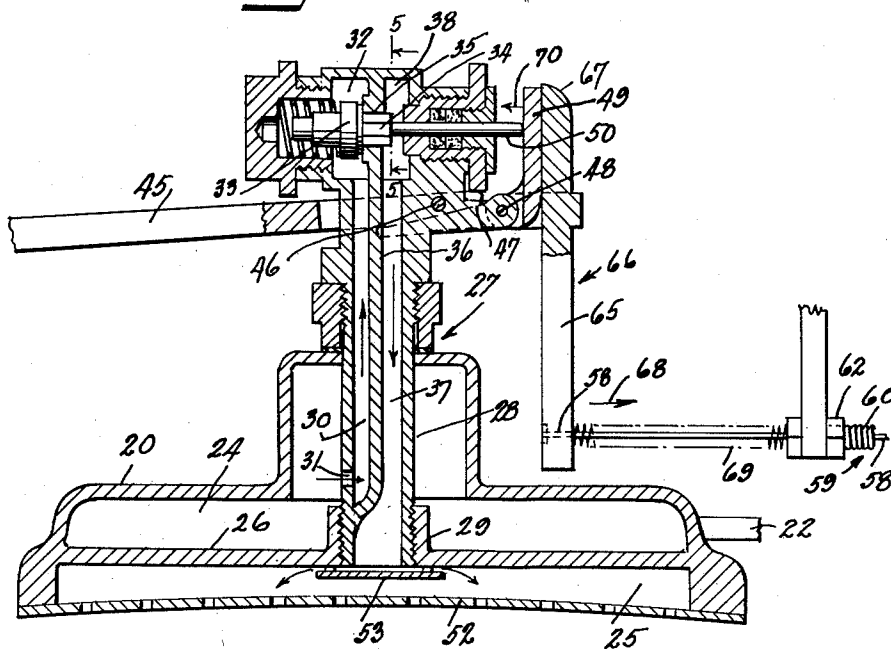


Fig. 4

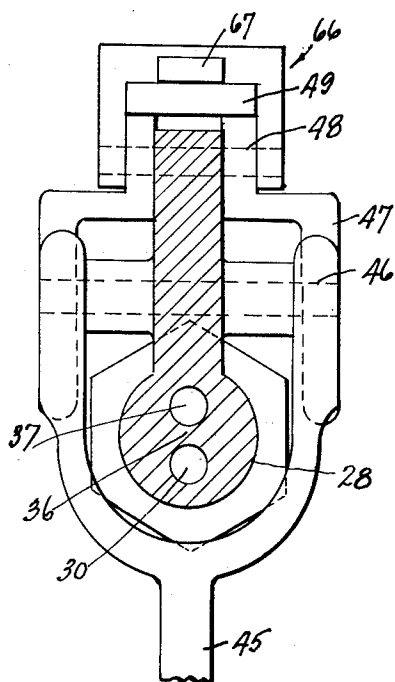
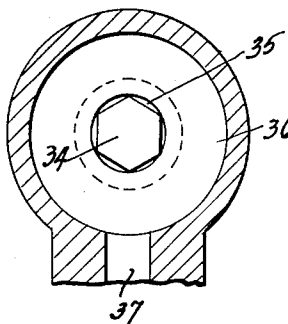


Fig. 5



INVENTOR
Tobias G. Jasper.
BY *Maurice B. Bledsoe*
ATTORNEY

UNITED STATES PATENT OFFICE

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PRESSING MACHINE

Tobias G. Jasper, Brooklyn, N. Y.

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2 Claims. (Cl. 68—9)

This invention relates to garment pressing machines and more particularly to pressing machines provided with swingingly mounted steam heads adapted to be brought in and out of contact with a pressing buck.

One of the objects of the invention is to provide a machine of this character with means for releasing steam from the said head by pressure upon a foot lever while the said head is in any desired position.

Another object of the invention is to provide a flexible connection between the said steam head and foot lever to release steam from the said head so as to permit the free use of both hands of the operator while steaming a garment.

A further object of the invention is to provide a machine of this class provided with both foot and hand operated steam releasing means.

Another object is to produce a device of the character described in which the maximum simplicity of construction and operation is secured.

Other objects and advantages will appear as the nature of the improvements is better understood, the invention consisting substantially in the novel arrangement and co-relation of parts herein fully described, and illustrated in the accompanying drawings, wherein similar reference characters are used to describe corresponding parts throughout the several views, and then finally pointed out and specifically defined and indicated in the appended claims.

The disclosure made the basis of exemplifying the present inventive concept suggests a practical embodiment thereof, but the invention is not to be restricted to the exact details of this disclosure, and the latter, therefore, is to be understood from an illustrative, rather than a restrictive standpoint.

The inventive idea involved is capable of receiving a variety of mechanical expressions, one of which, for the purpose of illustration, is shown in the accompanying drawings, in which—

Figure 1 is a perspective view of the pressing machine showing my invention as applied thereto.

Figure 2 is a fragmental perspective view of the pressing machine with the steam head in raised position.

Figure 3 is a sectional view through the steam head and control valve taken on line 3—3 Figure 1.

Figure 4 is a top plan view partly in section showing the arrangement of the control valve levers and

Figure 5 is a sectional view taken on line 5—5 Figure 3.

Referring now to the drawings in detail 10 indicates a frame, supporting a steam table or buck 11. A shaft 12 is suitably supported in bearings 13 and 14 forming a part of the said frame 10. A frame or bracket 15 having bearing arms 16 and 17 is swingingly supported on the shaft 12 and is secured at its front end 18 to a steam head 20. Steam is admitted into the steam head from a suitable source through a pipe line 21. A pipe line 22 forms a return for the steam.

The steam head 20 is provided with an upper chamber 24 and a lower chamber 25 divided by a wall 26, the chamber 24 being in direct communication with the steam inlet and outlet pipes 21 and 22. A valve 27 having a stem 28 is screw threadedly secured in a boss 29 projecting upwardly from the wall 26. The said valve stem is provided with a steam passage 30 in communication with the chamber 24 by means of an opening 31 in the stem 28. The steam passage 30 leads into a valve chamber 32 housing a spring pressed valve disc 33 provided with a hexagonal stem or extension 34 passing through a circular opening 35 in an inner valve stem wall 36 which separates the steam inlet or passageway 30 from a second passageway 37 leading downwardly from a valve chamber 38 into the lower steam head compartment 25.

The steam head 20 is swung downwardly against the tension of a pair of springs 39 by means of a series of levers 40 connected thereto and to a treadle 41 pivoted at the rear of the machine, and may be released by a foot lever 42, a portion 43 of which underlies the foot lever or treadle 41, the springs 39 exerting a pull on the head bracket 15 to swing same about the shaft 12 and raise the head 20.

It is often desirable to take wrinkles out of the shoulder portion of a garment. Normally in the present day pressing machines this is accomplished by holding the garment against the perforated plate 52 at the bottom of the steam head and pulling down a hand lever 45 pivotally mounted at 46 of the valve casing, when the steam head is in the Figure 2 position. The pulling down of the handle rocks a bifurcated lever 47 with which it is in engagement, and which is pivotally mounted on a pin 48 passing through the valve casing. The lever 47 has an upstanding portion 49 which bears against a slidingly mounted pin 50 in engagement with the hexagonal projection 34 and pushes the valve

disc from its seat and permits the steam to enter the chamber 38 through the opening 35 and thence through the passageway 37 into the lower steam head chamber 25 and then outwardly through the perforated plate 52 against the garment. A plate 53 secured to the wall 26 and spaced a slight distance therefrom spreads the steam in all directions in the chamber 25.

By employing this method the operator holds the garment in one hand and operates the valve with the other, very often scalding the said other hand by the escaping steam.

To obviate this undesirable feature I have perfected my invention, which comprises a foot lever 55 pivotally mounted at 56 and having an upstanding arm 57 in which is secured a wire 58 of a flexible connection 59, the outer casing 60 of which is suitably held or secured at its lower end against the frame 10 by means of a sheath 61 and held in place at its upper end against the swinging frame 15 by means of a nut 62. The upper end of the wire 58 is suitably secured to an arm 65 of a lever 66 pivotally mounted on the pin 48 and provided with an upstanding portion 67 adjacent the upstanding arm 49 of the lever 47, with which it forms a one way connection. That is, the depression of the foot lever 55 will actuate the lever 57 and flexible connection 59 and cause the upper portion 67 of the lever 66 to rock the lever 49 and operate the valve, but the depression of the handle 45 will not disturb the foot lever and its connections.

To remove shoulder seam creases from a garment with my improved machine, the operator steps on the foot lever 55, thus rocking the lever 57 in the direction of the arrow 67a (Figure 1) and pulls the arm 65 in the direction of the arrow 68 (Figures 1 and 3) against the tension of a coiled spring 69 and actuates the arm 49 to move in the direction of the arrow 70 (Figure 3) to move the pin 50 inwardly against the hexagonal valve stem 34 to move the disc 33 from its seat and permit steam to enter the lower steam head compartment 25 through the steam passage 37. The operator thus having both hands free to hold the garment against the perforated

plate 52 and for any other purpose that may be necessary.

It will be understood that the steam head 20 may be brought down to any desired height above the pressing buck 11 with one foot and steam forced through the perforated plate 52 with the other foot, thus giving the operator free use of both hands to perform any desired function.

From the foregoing it will be seen that I have provided a pressing machine having a swingable steam head provided with a valve adapted to be operated by foot to cause steam to escape through the said head when the said head is in any position relative to the pressing buck.

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

1. In a pressing machine adapted to steam and press various parts of garments and having a swingably mounted steam head, a normally closed valve on the steam head, a hand operated swingably mounted lever in operative engagement with the valve to open same, a second swingably mounted lever in engagement with the first lever, a pivotally mounted foot lever, a flexible connection connected to the second mentioned lever and foot lever, and a spring on the said flexible connection in operative engagement with the second mentioned lever, for the purpose specified.

2. In a garment pressing machine, a frame, a buck mounted on the frame, a head movable toward and from the buck, a carrier for the head movably mounted in the frame, a normally closed valve on the steam head, a hand operated lever in operative engagement with the valve to open same, a second lever having a one way operative connection with the first mentioned lever to permit the said hand lever to be operated independently of the said second mentioned lever, a pivotally mounted pedal on the frame, a flexible connection passing through the carrier and connected to the second mentioned lever and pedal, and a spring on the said flexible connection in operative engagement with the second mentioned lever, for the purpose specified.

TOBIAS G. JASPER.

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