Apr. 10, 1923. 1,451,292

J. DASHEW

STEAM GARMENT PRESSING MACHINE

Filed July 27, 1921 2 sheets-sheet 1

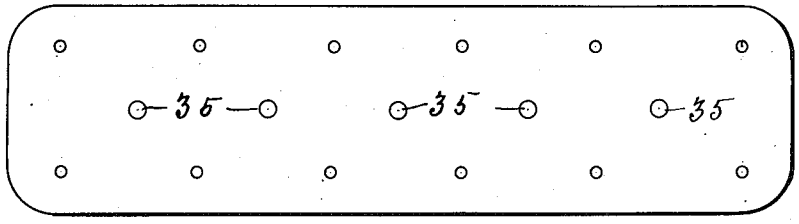


Fig. 2.

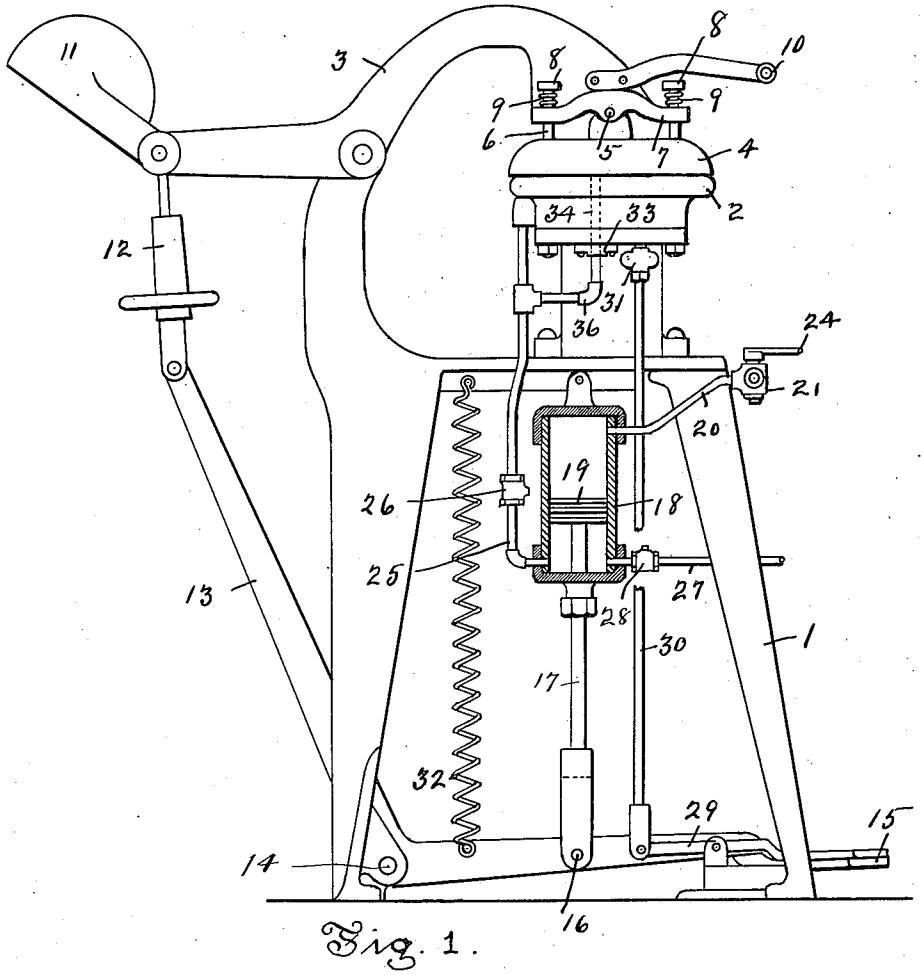


Fig. 1.

Inventor:
Jacob Dashew
By Chapman & Seaquen
Attorneys:

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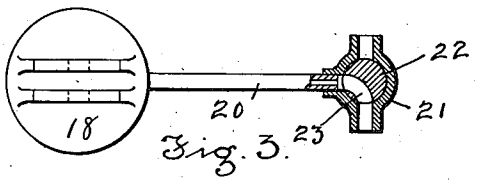


Fig. 3.

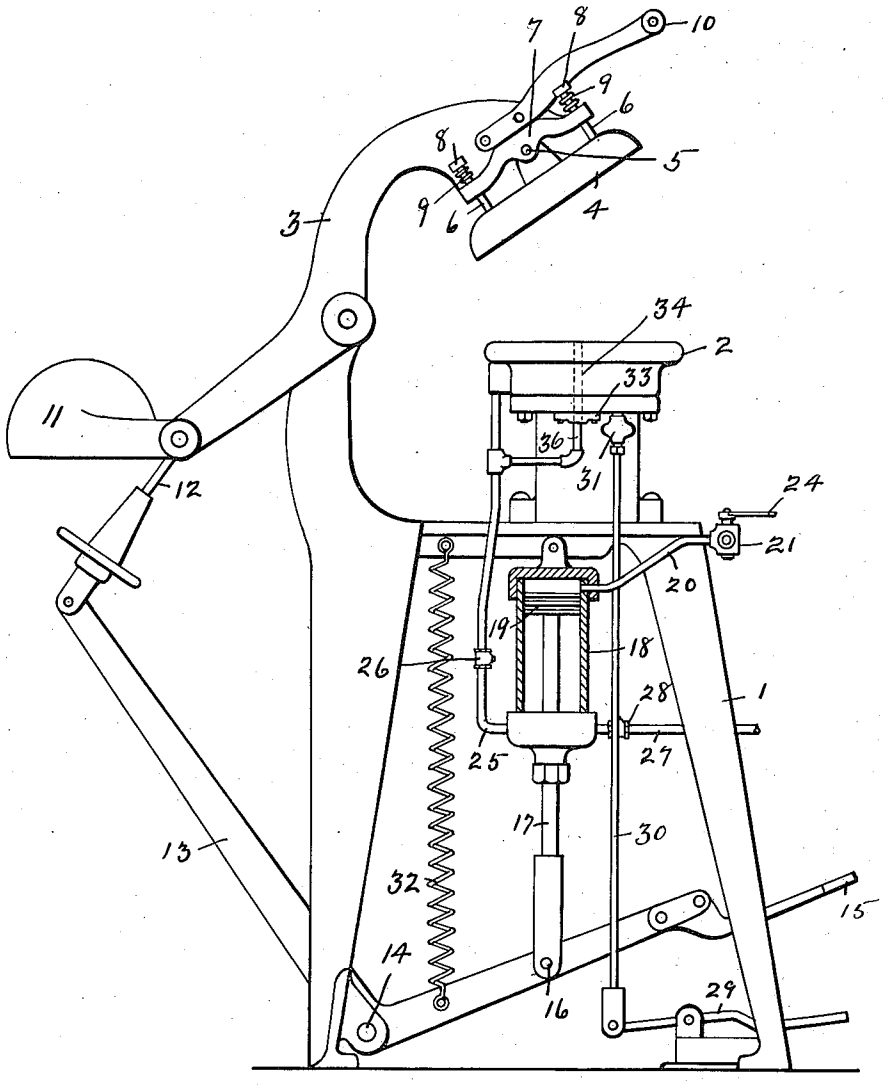


Fig. 4.

Inventor:
Jacob Dashew
By Chapin & Ferguson
Attorneys.

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UNITED STATES PATENT OFFICE.

JACOB DASHEW, OF BALTIMORE, MARYLAND.

STEAM GARMENT-PRESSING MACHINE.

Application filed July 27, 1921. Serial No. 487,831.

To all whom it may concern:

Be it known that I, JACOB DASHEW, a citizen of the United States, residing at Baltimore, in the State of Maryland, have invented certain new and useful Improvements in Steam Garment-Pressing Machines, of which the following is a specification.

This invention relates to improvements in steam garment pressing machines, and has for its object to provide a pressing machine in which the steam generated for moistening the goods may also be employed to operate the machine.

The invention consists of the novel construction and arrangement of the parts and combination of parts hereinafter more fully set forth in the following specification and pointed out in detail in the appended claim.

In the accompanying drawings,—

Figure 1 is a side elevation of my invention showing the pressing bucks in the closed position.

Figure 2 is a top plan view of the stationary pressing buck.

Figure 3 is an enlarged section of the valve which controls the flow of steam to and from the piston chamber.

Figure 4 is a similar view showing the upper pressing buck in the raised position.

Referring to the accompanying drawings, forming part of this specification, and in which like reference numerals designate like parts throughout the several views thereof, 1 designates a frame to which is secured a stationary pressing buck 2. To the rear of the frame 1 is pivoted an arm 3 having a pressing buck 4 pivoted thereto at 5 and having pins 6 projecting therefrom through the cross-head 7. Said pins 6 having heads 8 on their upper ends and coiled springs 9 between said heads 8 and the cross-head 7 to permit of a slight rocking motion of the buck 4 on its pivot. The said buck 4 is also provided with a handle 10 for the convenience of the operator. The rear end of the arm 3 is provided with a counterbalance weight 11. The said arm 3 is connected by a rod 12 to the rear end of the treadle 13 which latter is pivoted at 14 and has its front end projecting out to the front of the machine and provided with a foot piece 15. The treadle 13 is pivoted at 16 to the lower end of the piston rod 17, which latter projects up into the cylinder 18 and is provided with a piston-head 19 on its upper end. The said cylinder 18 is mounted under the frame 1. At the upper end of the cylinder 18 is a pipe 20 leading to the valve 21 which latter is provided with an inlet and an exhaust opening, and a plug 22 having an opening 23 adapted to register with said pipe 20 and the inlet, or with said pipe 20 and the outlet. Said valve being operated by the handle 24. At the bottom of the cylinder 18 is a pipe 25 leading to the buck 2 provided with a check-valve 26 which permits the water of condensation to flow from said buck 2 back to the cylinder, but will prevent said water from being forced back up in said pipe when the piston is forced down in said cylinder. A chamber 33 is secured to the lower surface of the stationary buck 2 and has a number of pipes 34 leading therefrom to the apertures 35 in said buck 2. The said chamber 33 is connected by a pipe 36 to the pipe 25 so that when the piston 19 is lowered in the cylinder 18 the steam will be drawn from the garment being pressed. Another pipe 27 leads from the bottom of the cylinder 18 to any desired point and is provided with a check-valve 28 which permits of the water of condensation being forced from said cylinder through the pipe 27 when the piston is forced down, but which prevents water being drawn back into said cylinder when the piston is forced up. A treadle 29 is pivoted at the front of the machine and is connected to the rod 30 which latter leads to and operates the valve 31 to control the flow of steam to the buck 2. A coiled spring 32 has one end connected to the frame 1 and its opposite end connected to the treadle 13 and serves to raise the latter, and consequently the buck 4, when steam is released from the cylinder 18.

The operation of the device is as follows:

The goods to be pressed is laid on the buck 2 in the proper position. The handle 24 is turned to allow steam to flow through the pipe 20 to the cylinder 18, forcing the piston 19 down and through the medium of the rod 17, treadle 13, and rod 12, causes the arm 3 to bring the buck 4 down upon the goods. Steam is then admitted to buck and passes through to the goods. When the steam is discharged from the cylinder through the pipe 20 and valve 21, the piston 19 will be raised by the action of the spring 32, and any water of condensation

in the buck 2 will be drawn down through the pipe 25 by the action of the piston as the latter rises in the cylinder 18, and said water will be forced from the cylinder 18 through the pipe 27 when the piston 19 is forced down. By keeping the valve 21 in the released position the machine may be operated by foot power.

While I have shown my invention operated by steam, it is obvious the same may be operated by air, or other fluid pressure, or by electricity.

Having thus described my invention what I claim is:—

A garment pressing machine comprising a frame, a stationary buck secured to the said frame, a chamber removably secured to the lower surface of the stationary buck, pipes leading from said chamber to the upper surface of the stationary buck, an arm pivoted to said frame, a buck secured to the outer end of said arm and adapted to be raised and lowered thereby, a cylinder secured to said frame, a pipe leading from the said stationary buck to the bottom of said cylinder and provided with a check valve, an outlet pipe leading from the bottom of the said cylinder and provided with a check valve, a valve communicating with and adapted to control the admission and discharge of fluid pressure to and from said cylinder, a piston within said cylinder and having its piston stem projecting therefrom, and means connecting said piston stem with the said arm whereby when the said piston is operated the arm will rock on its pivot to reciprocate the buck carried thereby.

In testimony whereof I affix my signature.

JACOB DASHEW.