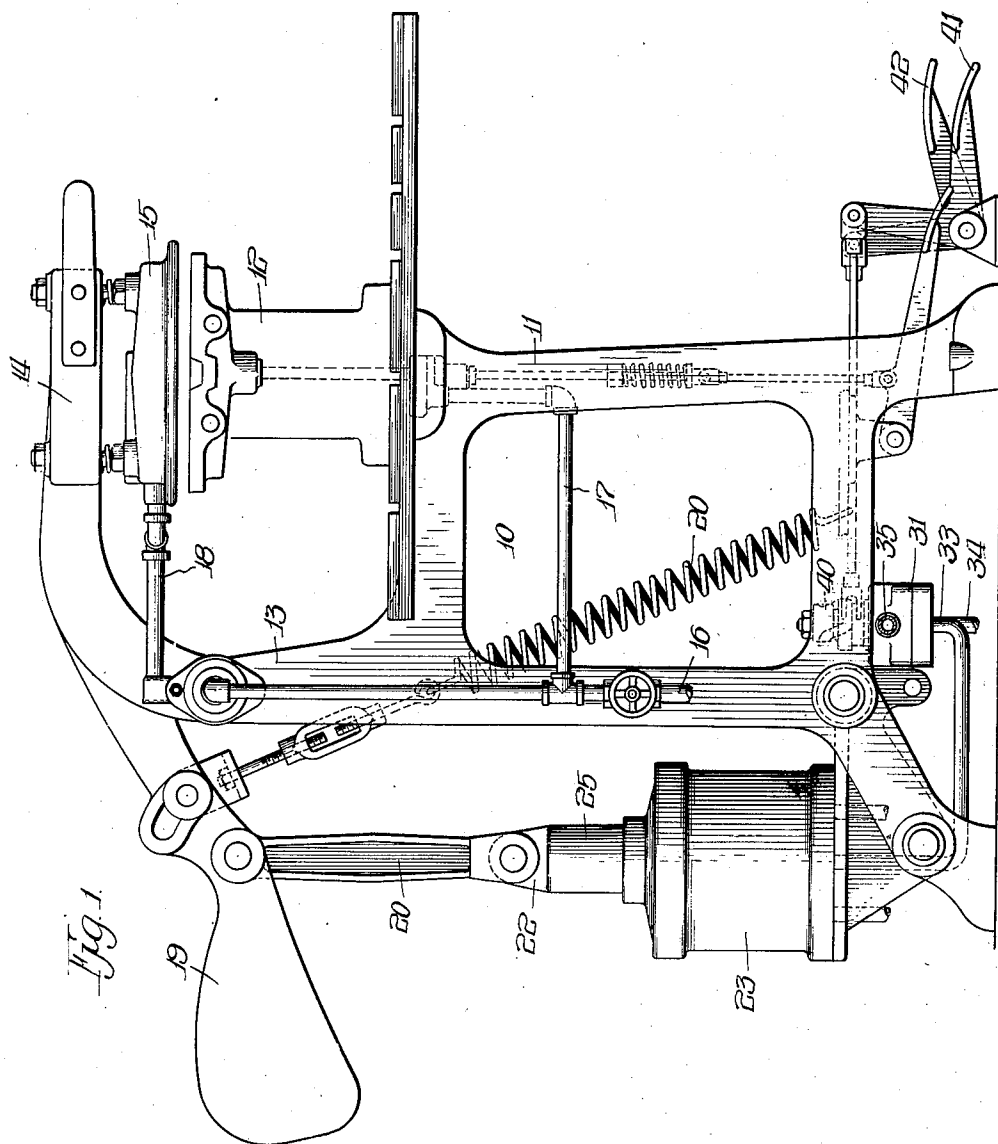


H. C. HOTING.
 CONTROL MECHANISM FOR PRESSING MACHINES.
 APPLICATION FILED NOV. 4, 1918.

1,335,835.

Patented Apr. 6, 1920.

2 SHEETS—SHEET 1.



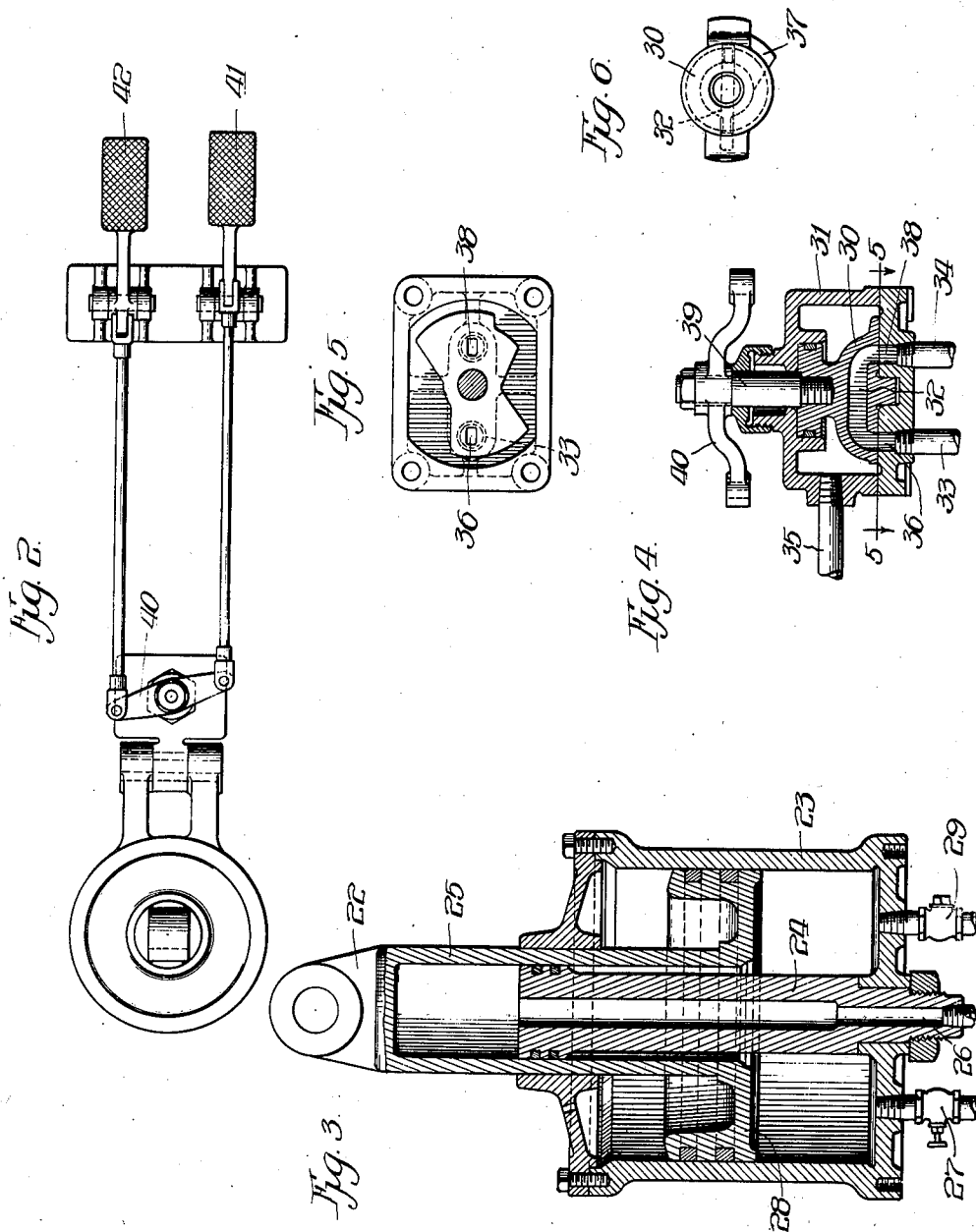
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UNITED STATES PATENT OFFICE.

HANS C. HOTING, OF CHICAGO ILLINOIS, ASSIGNOR TO TROY LAUNDRY MACHINERY CO., LTD., OF CHICAGO, ILLINOIS, A CORPORATION OF NEW YORK.

CONTROL MECHANISM FOR PRESSING-MACHINES.

1,335,835.

Specification of Letters Patent.

Patented Apr. 6, 1920.

Application filed November 4, 1918. Serial No. 261,119.

To all whom it may concern:

Be it known that I, HANS C. HOTING, 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 Control Mechanism for Pressing-Machines, of which the following is a specification.

This invention relates to control mechanism for pressing machines.

The object of this invention is to simplify and improve control mechanism for pressing machines and to provide a novel operating arrangement wherein the parts cooperate to meet the requirements for successful commercial use.

This and other objects are accomplished by means of the arrangement disclosed on the accompanying sheets of drawings, in which—

Figure 1 is a side elevation of a garment pressing machine embodying my invention;

Fig. 2 is a detail plan view of the pedal and valve controlling mechanism;

Fig. 3 is a vertical sectional view of part of the operating mechanism for transmitting movement to the shoe of the pressing machine;

Fig. 4 is a vertical sectional view of the main control valve;

Fig. 5 is a sectional view taken in the plane of line 5—5 of Fig. 4; and,

Fig. 6 is a plan view of the valve shown in Fig. 4.

The various novel features of my invention will be apparent from the following description and drawings and will be particularly pointed out in the appended claims.

Referring to the figures of the drawings, it will be noted that I have shown a garment pressing machine 10 including a frame 11 supporting the pressing buck 12, said frame being provided with a vertical supporting portion 13, to which is pivotally connected a pressing shoe frame 14 carrying the pressing shoe 15. The buck 12 and pressing shoe receive live steam from any suitable source of supply 16 through pipes 17 and 18, respectively. The rear portion of the shoe frame 14 is provided with a weighted arm 19, which has connected thereto a spring 20 anchored to the frame 11, both the weight and spring being used for maintaining the shoe frame in balance.

Pivotally connected to the weighted arm 19 is a link 21, to the lower end of which is pivotally connected a combined cylinder and piston 22, which operates within a dash pot 23. Affixed in a vertical position in the center of the dash pot 23 is a stationary piston 24 with which the cylinder portion 25 of the member 22 has a relative movement. The combined cylinder and piston 22 is forced upwardly by fluid pressure, preferably by steam, which flows upwardly through the passageway 26 within the stationary piston 24. The upward movement of the member 22, and thereby the closing or downward movement of the shoe 15, is retarded by the action of an air regulating valve 27 connected to the dash pot 23 under the piston portion 28 of the member 22, which valves regulate the degree of vacuum created by the upward movement of the member 22. To permit the combined piston and cylinder to lower in a controlled manner, the air cushion below the piston 28 is gradually reduced by the escape of air through the check valve 29, also connected to the dash pot 23 under the piston 28.

The supply of steam to, and the discharge of steam from, the cylinder 25 is controlled by an oscillating valve 30 mounted within a valve casing 31 and having a passageway 32 which, in the position shown in Fig. 4, connects pipes 33 and 34, pipe 33 being the pipe which connects the valve casing 31 with the piston passageway 26, and pipe 34 being the exhaust pipe. Leading into the valve casing 31 over the valve 30 is a steam supply pipe 35 which may receive steam from any suitable source. When the valve is moved into a position to expose the cylinder port 36, steam is permitted to flow from the pipe 35 through pipe 33 and passageway 26 to raise the combined cylinder and piston member and to lower the pressing shoe into pressing position. When the valve 30 is in this opened position it will be understood that the ear 37 on the valve 30 covers the exhaust port 38 to prevent the escape of live steam. This valve 30 has a stem 39 having connected thereto a cross rod 40. One end of this cross rod is operatively connected to an operating pedal 41 and the other end of the cross rod 40 is operatively connected to another operating pedal 42. When the pedal 41 is depressed, the valve 30 will be rotated into a position

permitting live steam to pass into the cylinder 25 for moving the press shoe into pressing position, and when the pedal 42 is depressed the steam will be permitted to exhaust from the cylinder 25 through pipe 33, valve passageway 32 and out through exhaust pipe 34.

By means of this mechanism I provide a simple, efficient and improved control arrangement for pressing machines to meet the requirements for successful commercial use.

It is my intention to cover all modifications of the invention falling within the spirit and scope of the following claims.

I claim:

1. In combination, a pressing machine shoe, an operating mechanism therefor including a combined cylinder and piston operatively connected to said shoe, and a dash pot in which the combined cylinder and piston operates.

2. In combination, a pressing machine shoe, an operating mechanism therefor including a combined cylinder and piston operatively connected to said shoe, a dash pot in which the combined cylinder and piston operates, and means for controlling the supply of operating fluid for actuating said combined cylinder and piston.

3. In combination, a pressing machine shoe, an operating mechanism therefor including a combined cylinder and piston operatively connected to said shoe, a dash pot in which the combined cylinder and piston operates, and means for controlling movement of said combined cylinder and piston.

4. In combination, a pressing machine shoe, an operating mechanism therefor including a combined cylinder and piston operatively connected to said shoe, a dash pot in which the combined cylinder and piston operates, and a stationary piston mounted in said dash pot with which the cylinder por-

tion of the combined cylinder and piston has a relative movement, said stationary piston having a passageway therethrough for the flow of an actuating medium.

5. In combination, a pressing machine shoe, an operating mechanism therefor including a combined cylinder and piston operatively connected to said shoe, a dash pot in which the combined cylinder and piston operates, and regulating and check valves connected to the dash pot for controlling the degree of vacuum in and the escape of air from the dash pot.

6. In a pressing machine, the combination of a pressing member, operating means therefor including cylinder and piston mechanism, and valve mechanism for controlling the supply of an actuating medium to said cylinder and piston mechanism.

7. In a pressing machine, the combination of a pressing member, operating mechanism therefor including a combined piston and cylinder, a dash pot within which the combined cylinder and piston operates, and valve mechanism for regulating the degree of vacuum within and the escape of air from the dash pot under the piston of the combined piston and cylinder.

8. In a pressing machine, a pressing member, operating mechanism therefor including a combined cylinder and piston, a dash pot in which the combined cylinder and piston operates, a stationary piston mounted within the dash pot with which the cylinder of the combined cylinder and piston is relatively movable, and a control valve for controlling the supply of steam through the stationary piston into the cylinder of the combined piston and cylinder for controlling an operable movement of said pressing member.

Signed at Chicago, Illinois, this 31 day of October, 1918.

HANS C. HOTING.