D. M. COOPER.

GARMENT PRESSING MACHINE.

APPLICATION FILED MAR. 20, 1912.

1,245,571.

Patented Nov. 6, 1917.

4 SHEETS—SHEET 1.

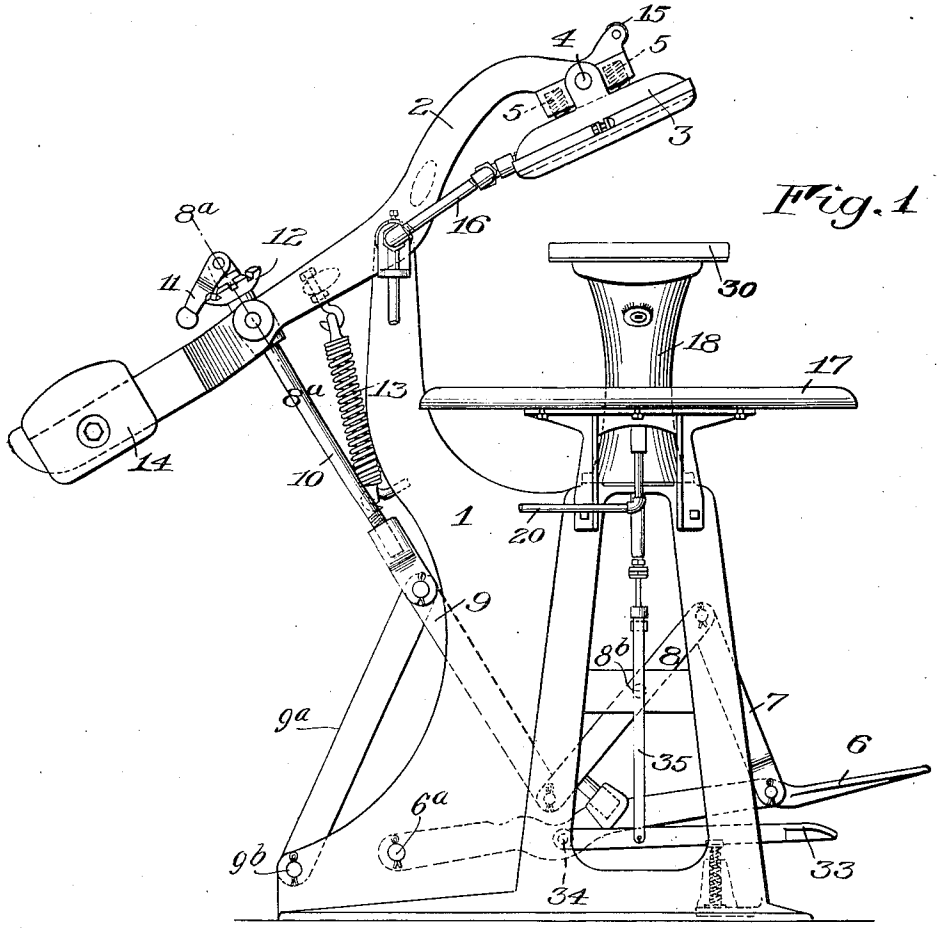


Fig. 1

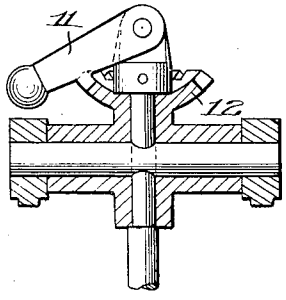


Fig. 8

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4 SHEETS—SHEET 2.

Fig. 2

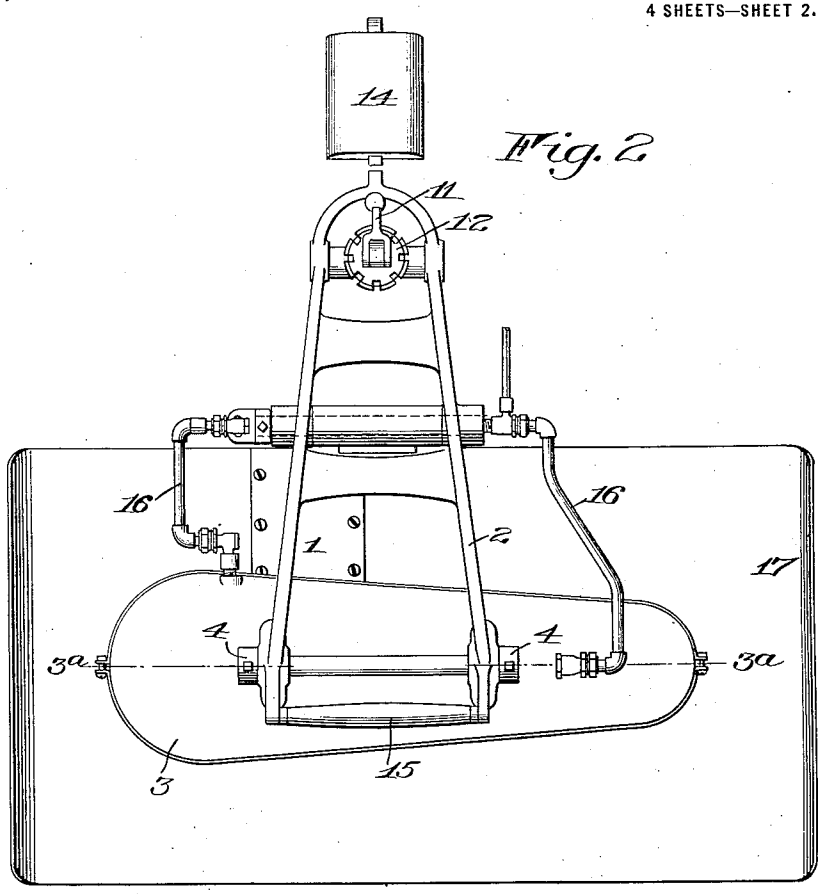
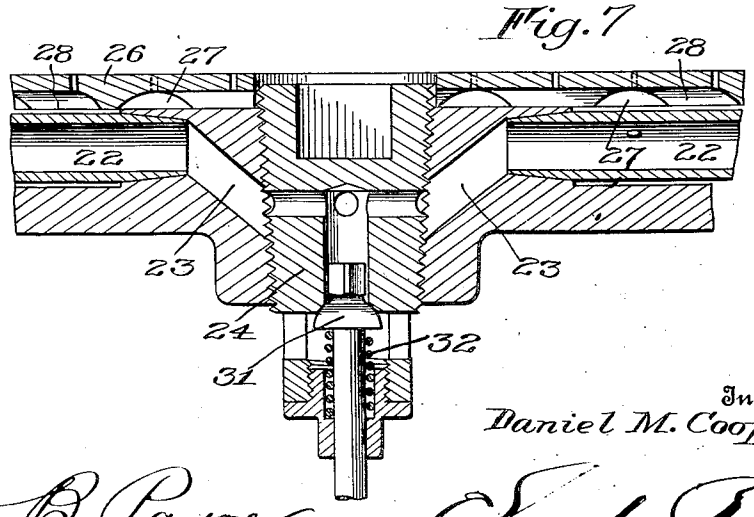


Fig. 7



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4 SHEETS—SHEET 3.

Fig. 3

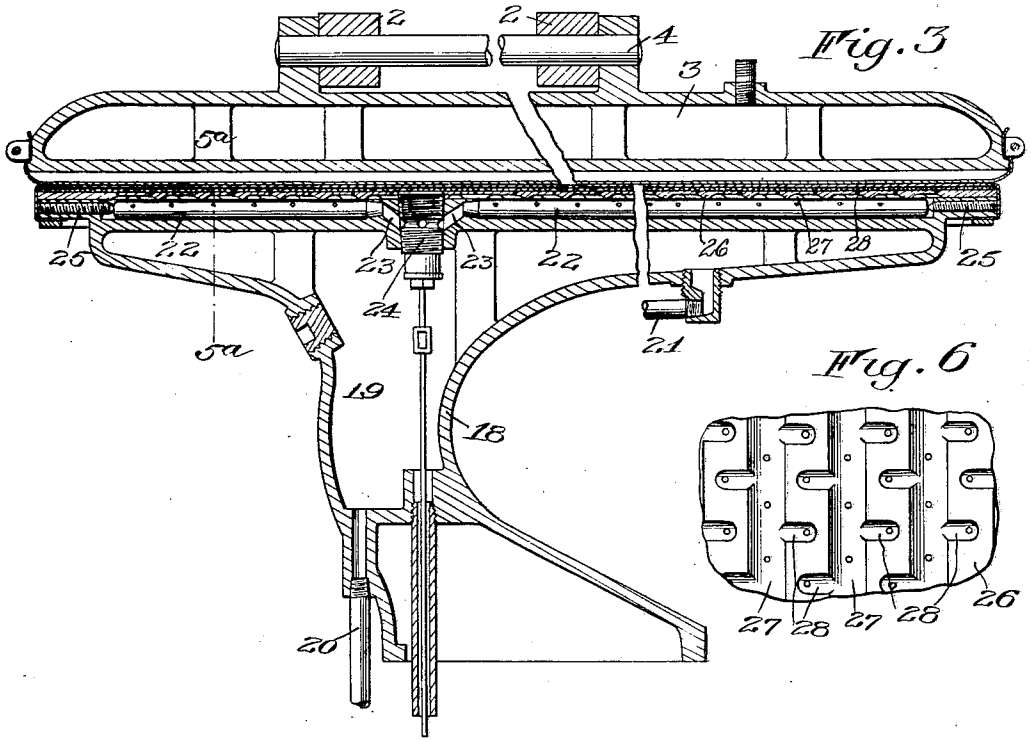
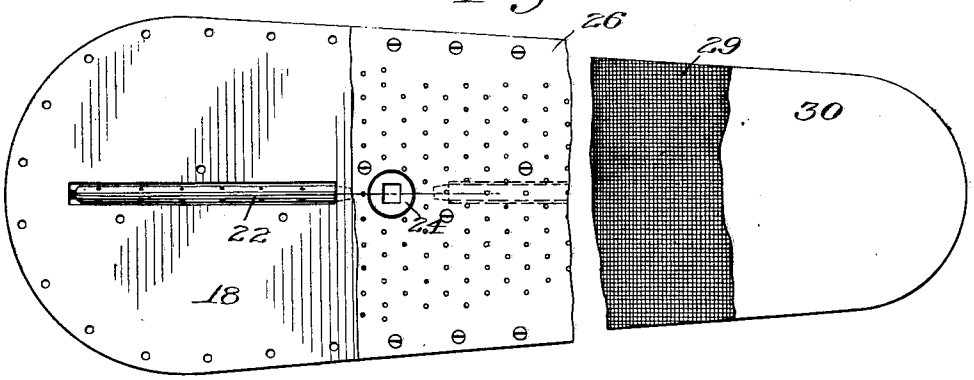


Fig. 6

Fig. 4



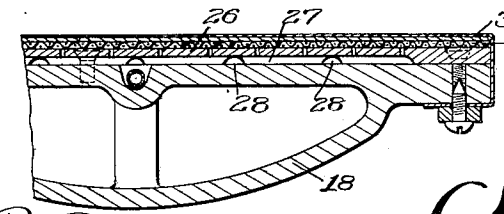


Fig. 5

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4 SHEETS—SHEET 4.

Fig. 9

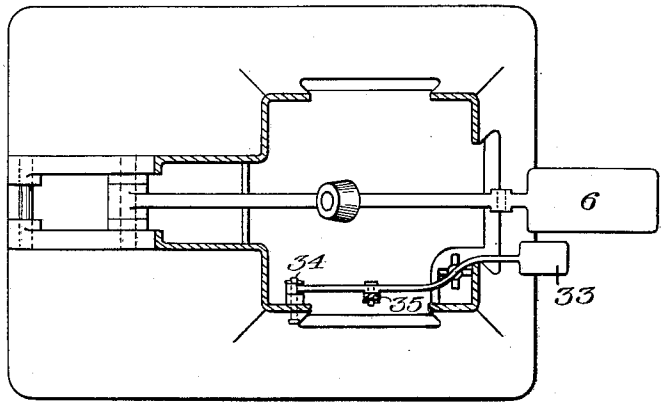
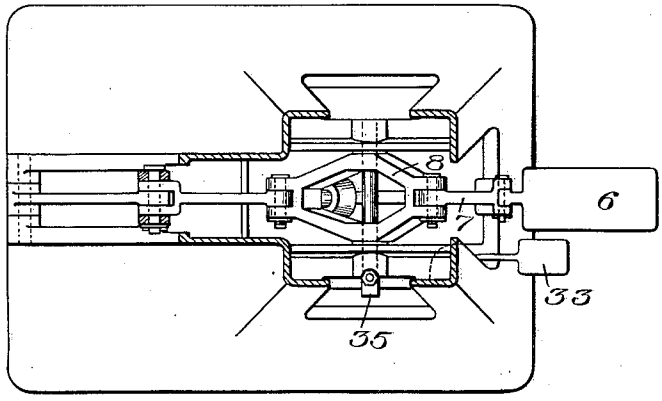


Fig. 10



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UNITED STATES PATENT OFFICE.

DANIEL M. COOPER, OF ROCHESTER, NEW YORK, ASSIGNOR TO AMERICAN LAUNDRY MACHINERY COMPANY, OF CINCINNATI, OHIO, A CORPORATION OF OHIO.

GARMENT-PRESSING MACHINE.

1,245,571. Specification of Letters Patent. Patented Nov. 6, 1917.

Application filed March 20, 1912. Serial No. 685,115.

To all whom it may concern:

Be it known that I, DANIEL M. COOPER, of Rochester, in the county of Monroe and State of New York, have invented certain new and useful Improvements in Garment-Pressing Machines; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of this specification, and to the reference-numerals marked thereon.

My invention relates to garment pressing machines, with particular reference to the type of machine embodying a steam table and a presser relatively movable toward and from each other with means for ejecting steam from the steam table onto the garment, and it has for its object to provide a novel construction and arrangement of the several parts whereby the machine may be readily controlled, so as to leave the hands of the operator free to manipulate the garment. A further object consists in causing the steam to contact with the garment in such a manner that an extremely efficient pressing operation is obtained, resulting in a much better finish on the garment. To these and other ends the invention consists in certain improvements and combinations of parts, all as will be hereinafter more fully described, the novel features being pointed out in the claims at the end of the specification.

In the drawings:

Figure 1 is a view in side elevation of a machine, showing a preferred embodiment of my present improvement;

Fig. 2 is a plan view of the same;

Fig. 3 is a vertical sectional view on the line 3^a—3^a of Fig. 2;

Fig. 4 is a plan view of the steam table, with parts broken away;

Fig. 5 is a detail sectional view on the line 5^a—5^a of Fig. 3;

Fig. 6 is a plan view, in detail, of the under side of the cover for the steam table;

Fig. 7 is an enlarged vertical sectional view of a portion of the steam table, showing the steam controlling valve;

Fig. 8 is a sectional view on the line 8^a—8^a of Fig. 1.

Fig. 9 is a horizontal sectional view of the lower portion of the machine, and

Fig. 10 is a horizontal section, in a different plane.

Similar reference numerals throughout the several figures indicate the same parts.

The invention is illustrated, in the present embodiment, in connection with a pressing machine for coats and similar garments, comprising the main frame 1 and the presser arm 2 pivotally mounted on the frame. The presser-arm carries the presser 3 which is pivotally supported at 4, being held in normal position by means of the springs 5. This arrangement permits a slightly yielding movement of the presser, sufficiently to accommodate it readily to any irregularities of the garment on the steam table, and effecting more intimate engagement between the steam table and the presser.

The presser-arm 2 is controlled by the treadle 6 which swings on the axis 6^a and is connected by a link 7 with the rocking lever 8, the latter being pivotally mounted on the axis 8^b. The rocking lever 8 is connected by means of a pivoted link 9 to a toggle joint comprising the link 9^a and the connecting rod 10, the link 9^a being pivotally mounted on the frame at 9^b, while the connecting rod 10 is adjustably attached to the presser-arm. To this end, the connecting rod carries a locking member 11 for engagement with one of a series of notches in the locking plate 12 whereby it is possible to obtain a variable movement of the presser-arm.

A spring 13 connects the presser-arm and the frame, and serves to hold the presser normally in raised position, as shown in Fig. 1, while the weight 14 acts as a counter-balance for the presser. 15 is a handle carried by the presser-arm and 16 are steam pipes for effecting circulation through the hollow presser 3, as usual in this class of machines.

The presser 3 coöperates with the steam table, which, in the present embodiment, is stationarily arranged above the work table 17, although it is to be understood that the parts referred to may be interchanged, that is to say, the particular construction of the steam table, to be hereinafter described, may be employed in connection with the presser instead of as herein shown. In the present embodiment, the steam table comprises a support 18 which is hollow, to form the

steam chamber 19 having a suitable outlet and inlet, designated at 20 and 21, respectively. The support 18 has another suitable steam outlet for supplying steam to a garment arranged on the steam table, and to this end, it is preferably provided in its upper surface with longitudinal recesses in which are located the perforate pipes 22, the latter being closed at their outer ends and tapered at their inner ends to engage suitable passages 23, which connect with a valve casing 24, having threaded engagement with the support, as shown. The pipes 22 are held in proper position by means of adjusting screws 25. Secured to the support, above the perforate pipes 22, is a foraminated cover 26, provided on its under side with a plurality of channels 27 arranged transversely of the steam outlet of the support, while 28 designate supplemental channels arranged longitudinally, or parallel to the steam outlet, and in communication with the channels 27. In this manner, the steam is carried equally throughout the entire surface of the cover, being discharged at all points, and thus effecting an even distribution of moisture to the garment. A wire gauze 29 is laid over the cover 26, while 30 designates the usual cloth covering, or pad, secured over the wire gauze.

The supply of steam to the steam table is preferably controlled by the valve 31 which is held normally in closed position by a spring 32 and coöperates with the aforementioned valve casing 24. Operation of the valve is effected by a suitable foot actuated means, comprising, in the present embodiment, a treadle 33 pivoted at 34 and operating through a connecting rod 35 to lower the valve, when depressed, and permit the steam to pass to the top of the steam table. The treadle 33 is preferably arranged at a point adjacent to, or in proximity to the treadle 6, so that the operator may lower the presser by operating the treadle 6, and at the same time engage the treadle 33 to open the valve and permit the steam to issue onto the garment. By this construction, the operator's hands are left free to hold the garment, and position it while being pressed and at the same time, complete control is had over the steam supply at all times.

I claim as my invention—

1. In a garment press, the combination with a presser and a steam table, one having movement relatively to the other, of means for supplying steam to the steam table, said steam table comprising a support, a perforate pipe arranged in the surface of said support, and a foraminated cover secured to the support in juxtaposition to said perforate pipe and provided with transversely extending channels on its inner surface into which said pipe discharges.

2. In a garment press, the combination with a presser and a steam table, one having movement relatively to the other, of means for supplying steam to the steam table, said steam table comprising a support, a perforate pipe arranged in the surface of said support, and a foraminated cover secured to the support and provided on its inner surface with transverse channels extending across the same and longitudinal channels communicating with the transverse channels.

3. In a garment press, the combination with a presser and a steam table, one having movement relatively to the other, of means for supplying steam to the steam table, said steam table comprising a support having a longitudinal recess in the surface thereof and a passage communicating with said recess, a valve casing disposed in the passage, a valve operating within the casing, a perforate pipe arranged in said recess, and a foraminated cover secured to the support in juxtaposition to said perforate pipe and provided with transversely extending channels on its inner surface into which said pipe discharges.

4. In a garment press, the combination with a presser and a steam table, one having movement relatively to the other, of means for supplying steam to the steam table, said steam table comprising a support provided with longitudinally extending recesses, perforate pipes arranged in the recesses, a foraminated cover secured to the support provided with channels extending transversely to said pipes and supplemental channels extending parallel to the pipes and communicating with the first named channels, a valve-casing arranged between said recesses and connected thereto by passages, a valve movable in the casing, and foot actuated means for controlling the valve.

5. In a garment press, the combination with a stationary steam table, of a presser movable relatively to the steam table, said steam table comprising a support having a longitudinally extending steam outlet, a foraminated cover secured to the support provided with channels extending transversely to the steam outlet and supplemental channels extending parallel to the steam outlet and communicating with the first named channels, a valve-casing connected to the steam outlet, a valve movable in the casing, a treadle operatively connected to said valve, and a second treadle operatively connected to the aforesaid presser and arranged adjacent to the first mentioned treadle.

6. In a garment press, the combination with a presser and a steam table, one having movement relatively to the other, of means for supplying steam to the steam table, said table comprising a board pro-

vided with longitudinally extending steam outlets, a foraminated cover secured to the support in juxtaposition to said steam outlets, and provided with channels extending transversely thereof, and supplemental channels extending parallel to the steam outlets, and communicating with the first named channels, and valve controlling means for admitting steam to the steam table.

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R. G. STALLKNIGHT.