

July 13, 1937.

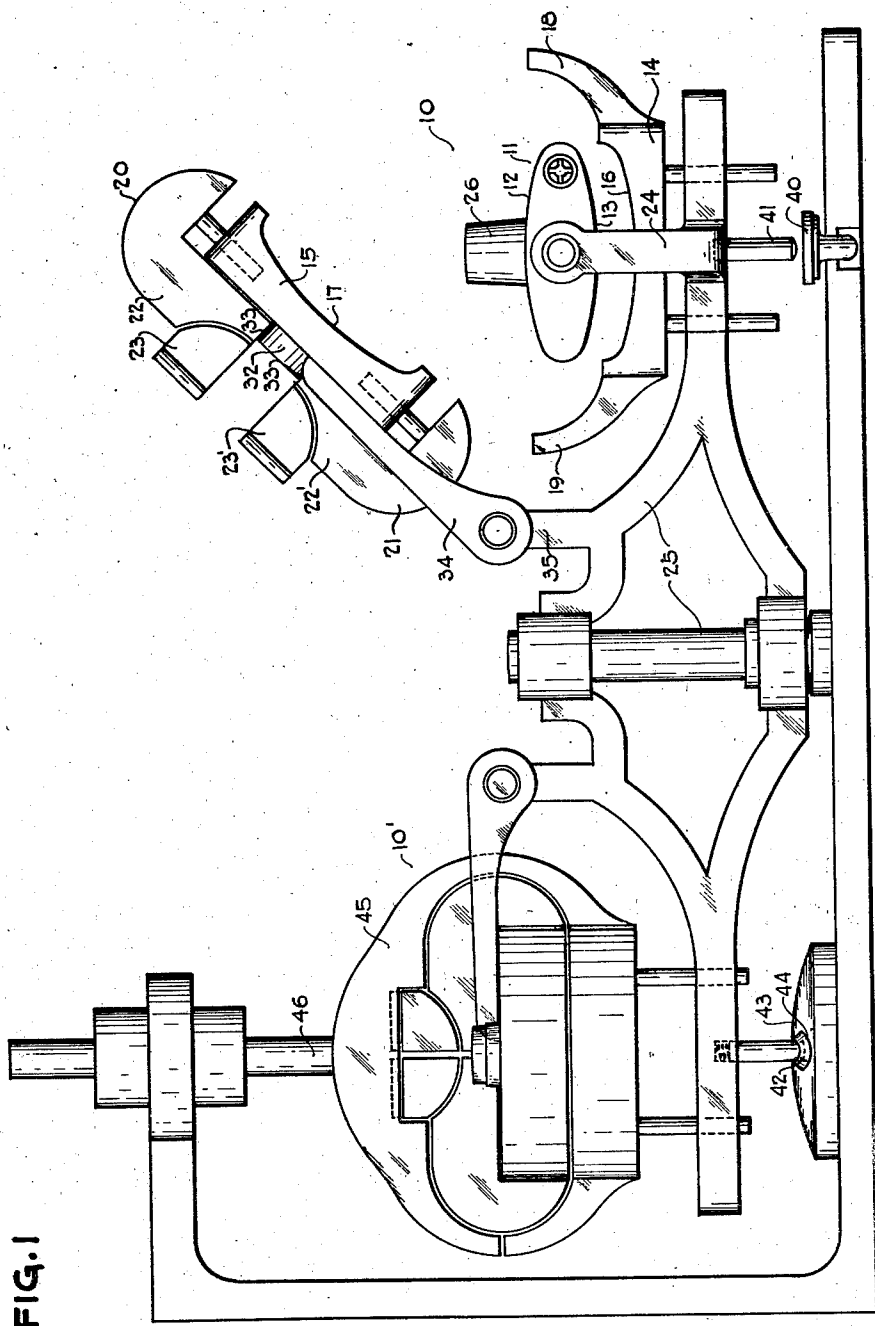
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2,086,900

LAUNDRY IRONING AND PRESSING MACHINE

Filed April 3, 1936

3 Sheets-Sheet 1



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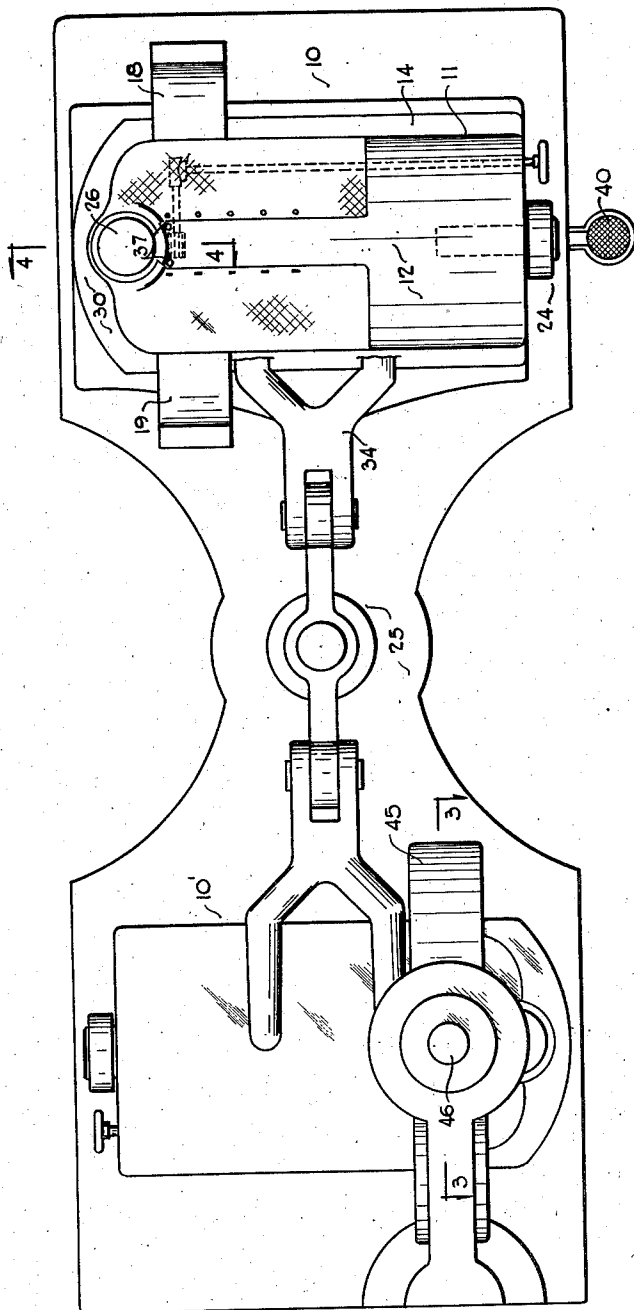


FIG. 2

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3 Sheets-Sheet 3

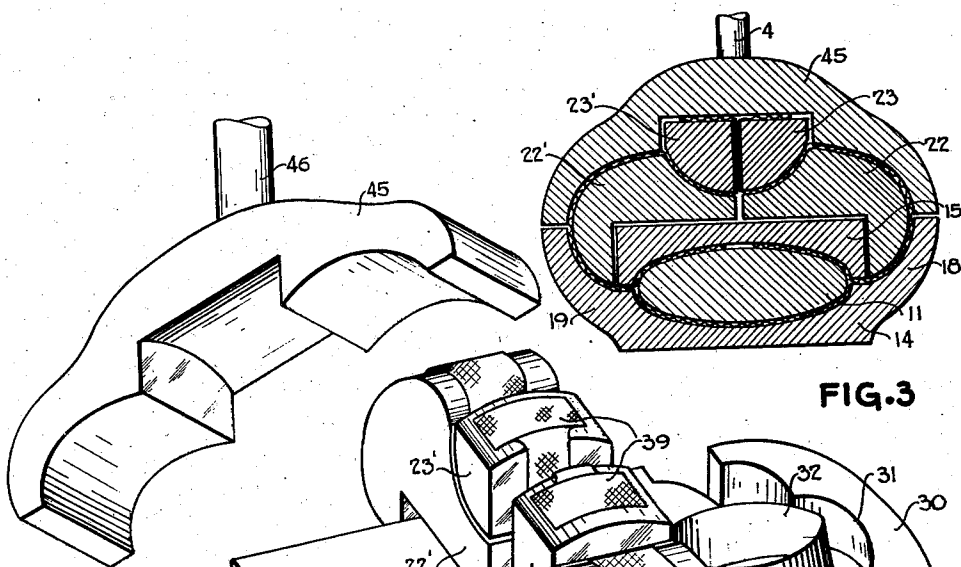


FIG. 5

FIG. 3

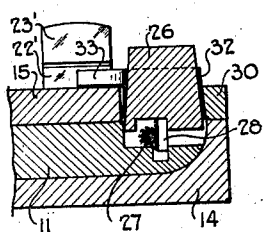


FIG. 4

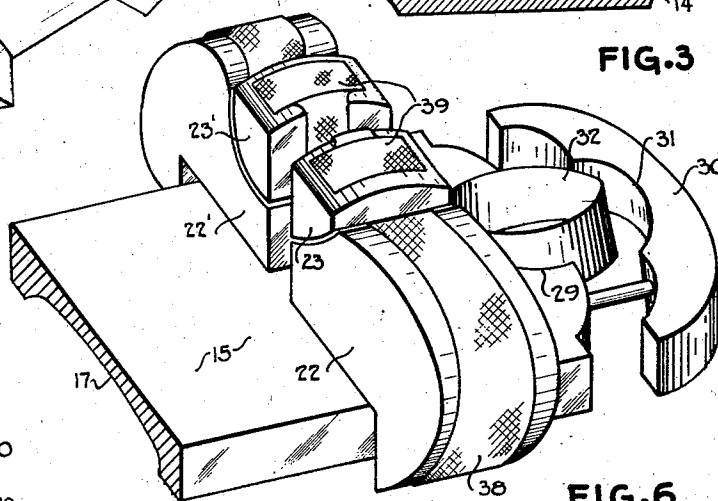


FIG. 6

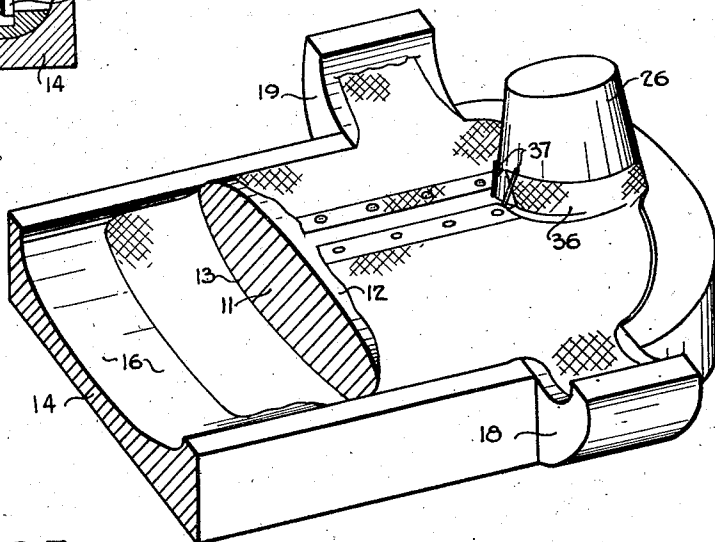


FIG. 7

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UNITED STATES PATENT OFFICE

2,086,900

LAUNDRY IRONING AND PRESSING
MACHINE

August Dahler, Bronx, N. Y.

Application April 3, 1936, Serial No. 72,482

5 Claims. (Cl. 223—57)

This invention relates to new and useful improvements in laundry machines, and more particularly to machines for pressing and ironing, and it has for its object to provide a machine capable of ironing a shirt in one single operation.

Aside from the above accomplishment, another advantage of my device resides in the fact that the said machine may be operated by only one person, thus effecting a great saving in machinery and the incidental cost of same, as the attainment of the above result, that is the ironing of a shirt, has hitherto required the employment of three to four different machines, with the corresponding number of operators to attend to these.

As a further advantage of my invention may be pointed out, the two-fold operating capability of my device, whereby one operator, while one shirt is being pressed or ironed, may prepare and arrange the next shirt for such successive step.

The present invention may thus be said to reduce very considerably the array of machines, hitherto necessary in laundry work, with an incidental saving of space occupied by said machinery; at the same time a saving of labor is effected, as hereinbefore stated, thus bringing about as a total an immense saving obtained by the use of my devised machine, hereinafter described.

As the construction of my invention is comparatively simple, the cost of manufacturing the same should be proportionately low.

With the above and other objects in view, this invention consists of the novel features of construction, combination, and arrangement of parts, hereinafter fully described, claimed and illustrated in the accompanying drawings forming part of this specification, and in which similar characters of reference indicate corresponding parts in all views, and in which:—

Figure 1 is a side elevational view of my invention.

Figure 2 is a top plan view of the same, part of the machine being removed in order to clearly show some detail construction thereof.

Figure 3 is a transverse sectional view on the line 3—3 in Figure 2.

Figure 4 is a similar view on the line 4—4 in Figure 2; while

Figures 5, 6, and 7 are enlarged detail views, showing different parts of the pressing units.

Referring more particularly to the drawings, 10 and 10' illustrate two similar units, each one of which consists of three parts, namely, a center part 11, the latter being formed with somewhat

curved top and bottom surfaces, as indicated at 12 and 13, respectively, a lower part, or body portion, 14, and a top part, or body portion, 15, the respective surfaces upon the lower and top parts, indicated at 16 and 17 and abutting the center part 11, are each shaped, or somewhat curved, to make a close fitting with said center part, during operation.

The lower part 14 is provided with two curved extensions 18 and 19, integral therewith; while the top part 15 has two co-operating extensions 20 and 21 adjustable with respect to said top part.

The extensions 20 and 21, each comprises two parts 22, 23 and 22', 23', respectively, with the members 23 and 23' being adjustable with respect to the parts 22 and 22'.

The center part 11 is pivotally fastened to an upright 24, which forms an integral part of the main structure 25. The center part is constructed to make a turn of 90 degrees.

At one end and upon its upper surface the member 11 is provided with a substantially cone-shaped portion 26, adjustable with respect to the latter by means of a gear 27 and rack 28, as may be seen in Figure 4. The purpose of said adjustment is to make the cone-shaped portion 26 fit the different sizes of collars on shirts.

The upper, or top portion 15 is at one end formed with a horizontal semi-circular, and, also, vertical conically shaped cut-out portion 29, adapted during operation to snugly fit part of the surface of the circumference of said cone-shaped portion 26, when a shirt collar is mounted upon the latter for ironing. At the same time during said latter operation a member 30, the latter being adjustable in regard to said top part 15, is formed with a cut-out rounded portion 31 upon the inner side thereof and registering with the cut-out semi-circular portion 29 in the member 15, whereby the latter in cooperation with the adjustable member 30 is adapted to completely encircle and appropriately fit the cone-shaped portion 26 during the movement above referred to, as may also be deduced from the showing in Figure 6.

Within the cut-out circular portion formed by the members 30 and 15, is mounted a flexible, and padded open ring member 32, which has its end portions 33, 33', secured to the members 22 and 22' to the effect that in the ironing of a collar, said ring member will descend upon, and in such descending movement embrace, the cone-shaped portion 26 upon which the shirt collar is arranged.

The top part 15 is secured to a bifurcated member 34, the latter being in turn pivotally hinged to an upright 35, which constitutes part of a central body, or frame work, 25.

5 In operation, when a shirt is prepared for ironing, the upper, or top part 15 and the lower part 14 are each through a suitable mechanical arrangement, for instance by hydraulic means, withdrawn from the center part 11, as may conveniently be seen in Figure 1, to the right in the latter.

For the sake of illustrating the arrangement of a shirt, preliminary to submitting the latter to an ironing process, reference is preferably to be had to the specific views in the Figures 6 and 7.

Thus in Figure 7 a shirt (part of which has been broken off) is shown arranged upon the center part 11, as the collar 36 of said shirt is snugly secured to and held around the cone-shaped portion 26 by means of spring actuated studs 37, which latter are adapted to substantially disappear in a downward movement, when the top portion 15 is descending upon the said shirt.

25 At this stage the top part 15 and lower part 14 are both brought close to the center part 11, whereupon the arrangement of the sleeves takes place.

While the operation relative to the arrangement of the bosom, back and collar of a shirt has been shown in Figure 7, the arrangement of the sleeves 38 and cuffs 39, relative to said operation, may conveniently be seen in Figure 6, wherein the said sleeves are shown flattened over the members 22 and 22', extending further between the members 22 and 23, and between the members 22' and 23', respectively; said sleeves finally having their cuffs arranged in a flat or extended position upon the slightly curved top portions of the members 23 and 23'.

40 As the shirt has thus been arranged upon the accommodating structure, as described, and is now in position, ready to be ironed, the entire structure with the two congruous units 10 and 10' is next swung around, or 180 degrees, that such units may take opposite positions for the sake of submitting the thus arranged shirt to the ironing process.

Such movement may be accomplished by any one of the well known systems, for instance, by means of hydraulic pressure, and by manipulating a lever or pedal 40. In such operation a spring actuated stud 41, formed upon the lower surface of the structure 25, snaps into a hole 42 in top of a circular plate member 43, the latter having recessed portions 44 to accommodate said stud 41 in its in and outward movement.

The unit 10' with the shirt arranged thereon, is now in position, ready to be acted upon for the sake of ironing or pressing.

60 Such operation is performed by having the member 45 descend upon and embrace the members 22, 22', 23, and 23', as may be especially seen in Figure 3. In said Figure 3 may likewise conveniently be seen the perfect arrangement of a shirt ready for ironing.

As may be noted in Figure 5, the member 45 is upon its lower side made of a shape congruent to the upper part of the members hereinbefore mentioned, and which members are embraced by said member 45, when the latter is in its lower position. Said member 45 is mounted upon a piston rod 46 forming part of a mechanical arrangement operated along well known principles.

Referring to the unit 10', the center part 11, and the members 22, 22' and 23, 23' of the top part 15 are padded to accommodate a shirt, and serving the purpose of an ironing board; the ring member 32 being also padded; while the lower part 14, including the two extensions 18 and 19, and the main body of the top part 15 are steam heated elements serving the purpose of a flat iron; the same condition also applies to the member 45; whereas the cone-shaped member 32 is electrically heated.

It is obvious that changes may be made in the form, construction and arrangement of the several parts, as shown, within the scope of the appended claims, without departing from the spirit of the invention, and I do not therefore wish to limit myself to the construction and arrangement shown and described herein.

What I claim as new, and desire to secure by Letters Patent of the United States, is:

1. A laundry pressing and ironing machine for the concentration in one operation of a plurality of operations, and comprising two substantially congruent units, a skeleton frame pivoted at its center and adapted to support said units, arms hinged upon and forming part of the upper end of said skeleton frame, said arms being arranged one upon each side of the pivotal support, operable sections carried by said arms, an intermediate and a lower section, each of the aforesaid operable sections being adapted to cooperate with said intermediate and lower sections, both of the latter being supported by the lower portion of the skeleton frame, substantially as and for the purpose set forth.

2. In a laundry pressing and ironing machine, a skeleton frame pivoted at its center, two substantially congruent units supported by said skeleton frame, a vertically moving member adapted for alternate cooperation with said units, said units each comprising a top part, a center part, and a lower part, an arm hingedly arranged upon said skeleton frame, upon each side of the pivotal support of the latter, and adapted to carry the top part, whereby the latter may be moved in an upward direction during operation, substantially as and for the purpose set forth.

3. In a laundry pressing and ironing machine, two substantially congruent units, a vertically moving member adapted for alternate cooperation with said units, said units each comprising a top part, a center part, and a lower part, the center part being of curved shape and adapted to receive the bosom portion of a shirt thereon, the top part comprising a main body, of a somewhat rectangular shape and having its lower surface made with a curvature adapted to fit the surface of the center part, said main body of the top part being at one end formed with a semi-circular cut-out portion, a curved member having a rounded cut-out portion upon its inner surface and adapted to cooperate with said main body, members secured to the sides of and adjustable with respect to said main body, said members being adapted to receive the sleeves of a shirt thereon, the lower part of said unit being adapted to cooperate with the top and center part during operation, substantially as shown and described.

4. In a laundry ironing and pressing machine, two substantially congruent units, a vertically moving member adapted for alternate cooperation with said units, said units each comprising a top part, a center part and a lower part, the center part being of a curved shape adapted to re-

ceive the bosom of a shirt thereon, and to make a turn of 90 degrees, said center part being at one end formed with a somewhat cone-shaped portion made to receive a collar thereon, the top part comprising a main body, of a somewhat rectangular shape and having its lower surface made with a curvature adapted to fit the surface of the center part, a ring member forming part of the top portion; and a member made with a reduced portion of a rounded shape upon the inner side thereof and adapted to partially encircle said ring member, said member being attached to the main body of said top portion, members secured to the sides of and adjustable with respect to said main body, said members being adapted to receive the sleeves of a shirt thereon, further members mounted upon said latter members and adapted to receive the cuffs flatly extended thereon, the lower part of said unit being adapted to cooperate with the top and center part during operation, substantially as shown and described.

5. In a laundry ironing and pressing machine, two substantially congruent units, a vertically moving member adapted for alternate cooperation with said units, said units each comprising a

top part, a center part and a lower part, the center part being of a curved shape adapted to receive the bosom of a shirt thereon, said center part being at one end formed with a somewhat cone-shaped portion made to receive a collar thereon, the top part comprising a main body of a somewhat rectangular shape and having its lower surface made with a curvature adapted to fit the surface of the center part, said main body of the top part being at one end formed with a semi-circular cut-out portion, a curved member having a rounded cut-out portion upon its inner side and adapted to cooperate with said main body a ring member forming part of the top portion, and adapted to be partially encircled by said curved member, members secured to the sides of and adjustable with respect to said main body, said members being adapted to receive the sleeves of a shirt thereon, further members mounted upon said latter members and adapted to receive the cuffs flatly extended thereon, the lower part of said unit being adapted to cooperate with the top and center part during operation, substantially as shown and described.

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