

Dec. 1, 1931.

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1,834,769

SHIRT PRESSING ATTACHMENT FOR PRESSING MACHINES

Filed May 4, 1927

3 Sheets-Sheet 1

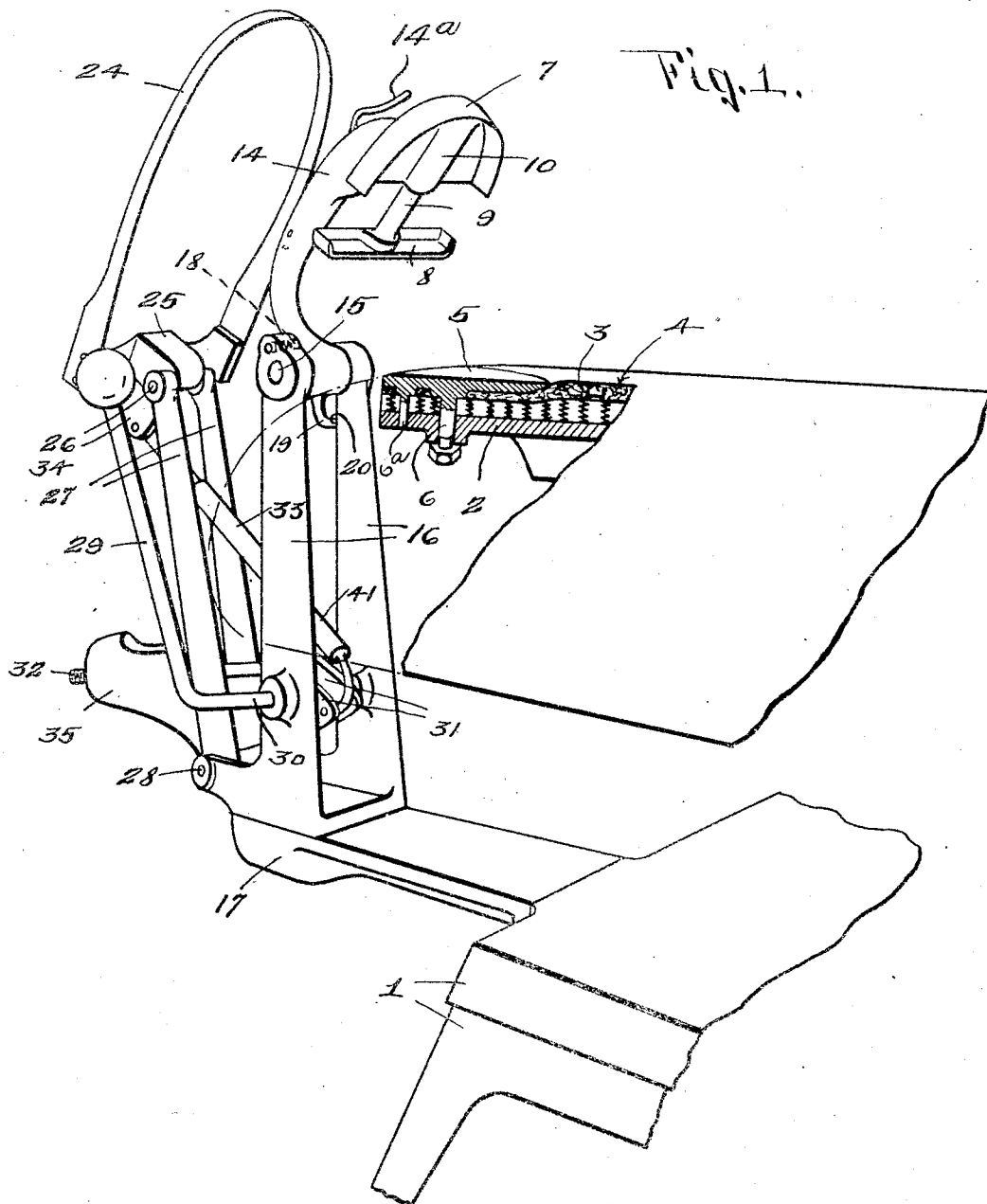


Fig. 1.

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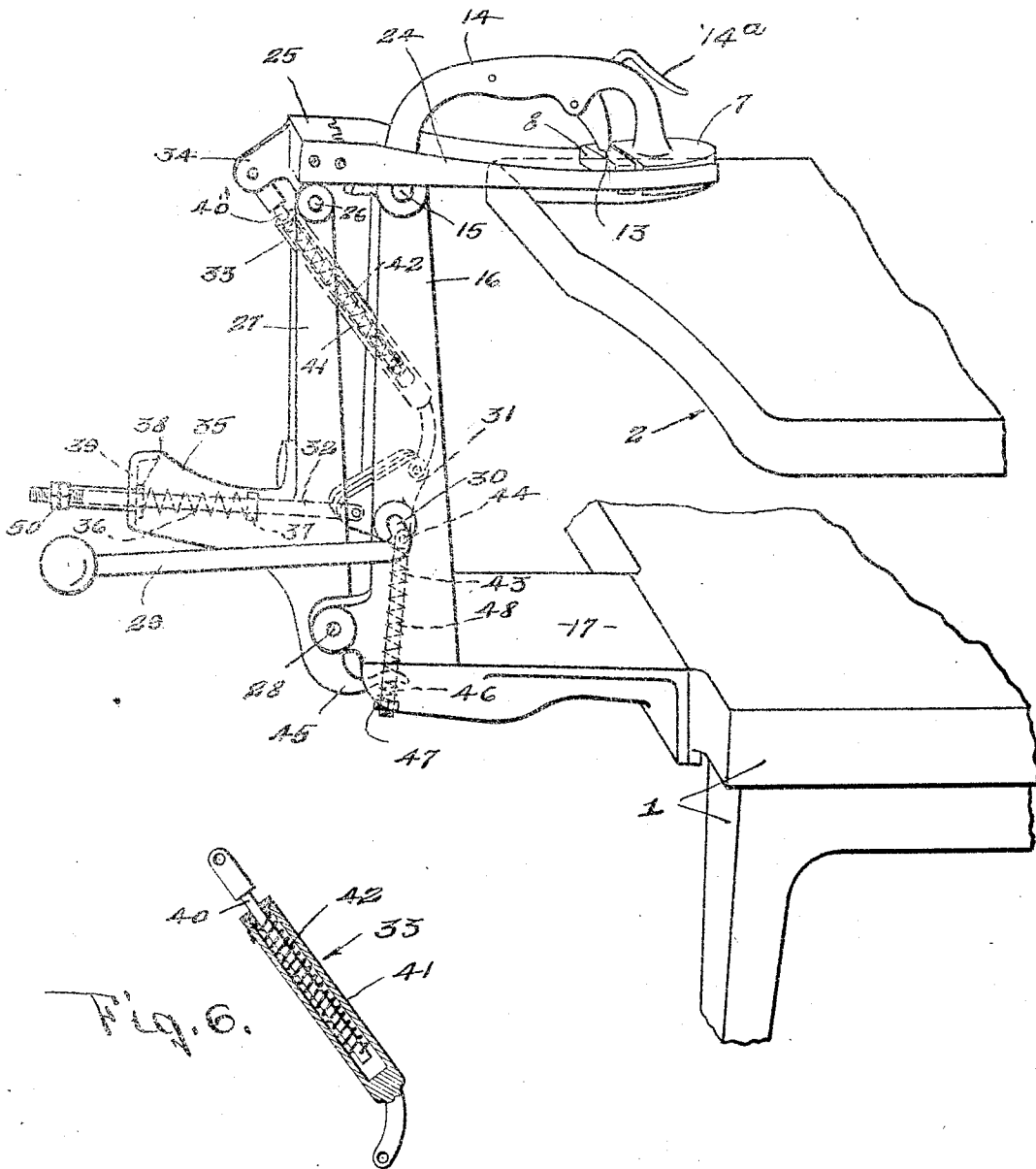
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Fig. 2.



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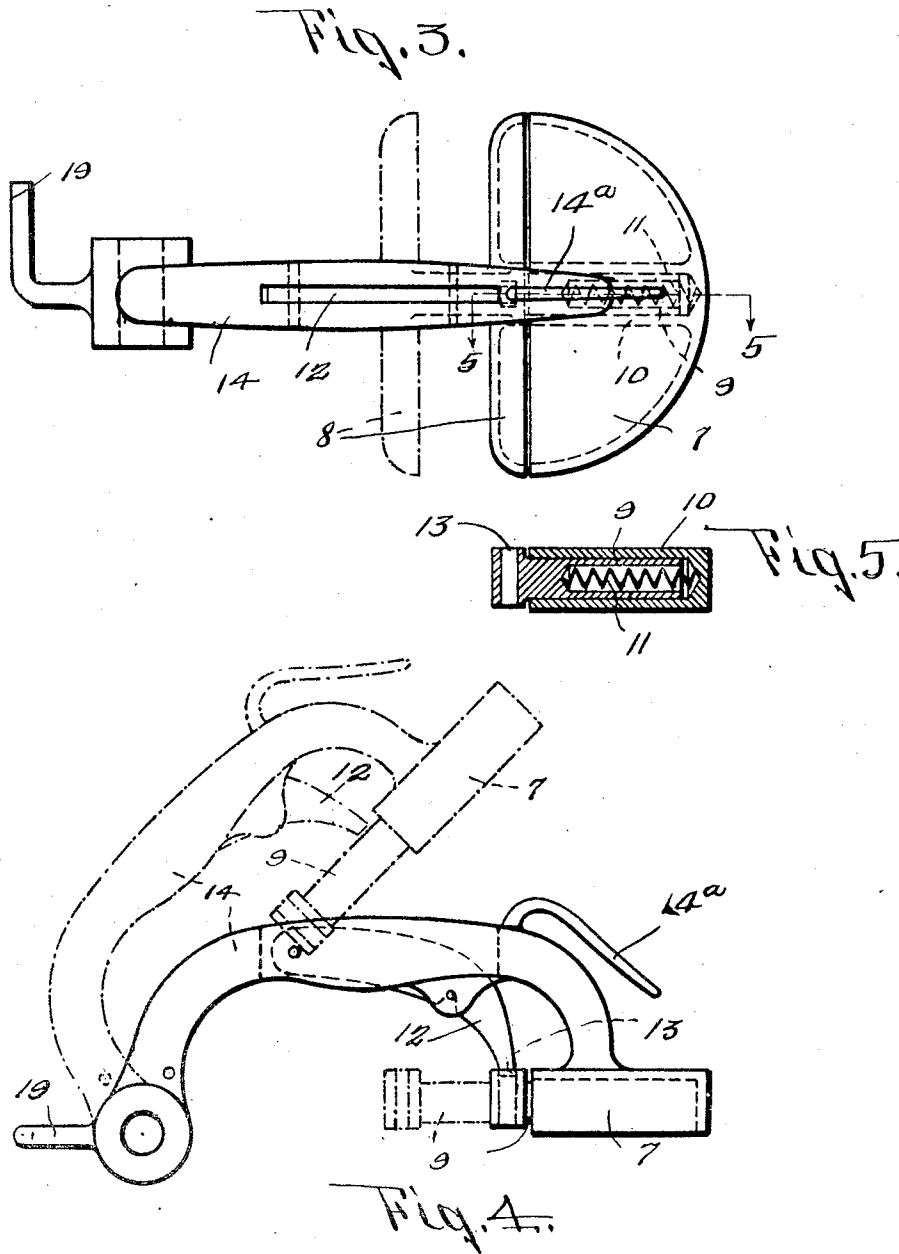
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3 Sheets-Sheet 3



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UNITED STATES PATENT OFFICE

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SHIRT PRESSING ATTACHMENT FOR PRESSING MACHINES

Application filed May 4, 1927. Serial No. 188,673.

This invention relates to pressing machines and has for its object a particularly simple and efficient means for pressing the neck yoke of shirts while the neck band is being held by a neck band holder and while the shirt front and back and if desired the sleeves are being pressed, or in other words it has for its object a pressing machine in which the entire shirt is pressed on a machine which is equally well adapted for general purposes.

The invention consists in the novel features and in the combinations and the constructions hereinafter set forth and claimed.

In describing this invention, reference is had to the accompanying drawings in which like characters designate corresponding parts in all the views.

Figures 1 and 2 are fragmentary perspective views of a pressing machine embodying my invention.

Figure 3 is a plan view of the detached neck band holder.

Figure 4 is an elevation of parts seen in Figure 3.

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

Figure 6 is a detail view of parts of the mechanism for operating the neck band clamp.

Shirts are pressed primarily for their appearance in the package and insofar as comfort and appearance on the wearer is concerned, a mere smoothing out or pressing operation is sufficient. However, in pressing shirts in order to give them a neat appearance in the package, the fronts and backs with their neck yokes are pressed in two special operations and on different machines and one of the features that contributes to the appearance of the shirt in the package is the pressing of the neck yoke which is visible, when the shirt is folded, through the neck band.

My invention has for its object a pressing machine which can be used for general purposes and also for pressing shirts including the neck yoke at one operation.

The machine includes the usual frame on which a buck is suitably supported and a head movable in any suitable manner toward

and from the buck, the buck having a padding thereon and a neck yoke ironing plate overlying the padding and connected to the buck through the padding and also a neck band clamp shiftable into and out of position overlying the plate.

1 designates the frame of the machine and 2 the buck which is mounted thereon in any suitable manner. The buck is usually heated and is overlaid with a resilient pad 3 which includes a wrapper or overlying layer of fabric 4.

5 is a plate in the general form of a neck yoke of a shirt overlying the fabric 4 of the padding centrally of the buck at one end thereof, and having a stem 6 extending through the padding and into the buck. The stem 6 is slidable in the buck so that the plate 5 may partake of any yielding movement of the padding and the stem 6 also provides a connection between the buck and the plate to conduct the heat of the buck to the plate to keep the plate hot. The plate is also formed with a pin 6^a which enters a hole in the buck, the pin coacting with the stem 6 to properly locate the plate 5 relatively to the buck 2.

7 is a neck band holder which consists of a body and an expander 8 movable toward and from the body in order to fit neck bands of different diameter. The expander 8 is spring pressed and has a sleeve 9 slidable in a guide 10 in the body against the action of a spring 11. The expander is held in its adjusted position by a latch 12 pivoted to the body and normally engaging a passage or notch 13 on the expander. After the body is placed in the neck band the latch is tripped by the operator to release the expander so that it is pressed outwardly by its spring to draw the neck band tight. The expander is reset by hand into engagement with the latch. This latch 12 can be released by gripping the carriage supporting the neck band holder and in gripping such carriage, the forefinger or the thumb of the hand will press against the downturned part of the latch 12 and trip the same.

14 is the movable carriage supporting the neck band holder and shiftable to carry the neck band holder into and out of position

over the plate 5. The carriage is an arm rigid with the body of the neck band holder. The carriage is pivoted at 15 to a support consisting of uprights 16 rising from a
 5 bracket 17 extending laterally from the frame 1 and the carriage 14 is held in its elevated position by means of a spring pressed poppet 18 located in a passage in a bearing
 10 and arranged to engage a suitable depression in the carriage 14 when the carriage is in its elevated position. Also the carriage is formed with a stop arm 19 engaging a part
 15 is shown as provided with a hook 14^a located over the neck band holder 7, this hook being for the purpose of holding the ends or flaps of collars on shirts having attached collars
 20 while the shirt is being pressed. In pressing shirts with attached collars, the collars are made to stand up straight and to keep the front or flap ends from getting in the way
 25 of the head of the machine when the head is closing, said flaps are tucked under the hook 14^a.

A machine having the buck 2 may be used as a general purpose machine for pressing
 30 generally and when shirts are to be pressed, the shirt can be laid with the back thereof on the buck and with the neck yoke overlying the plate 5. The neck band holder can be swung into position within the neck band
 35 and the ends of the neck band buttoned together and the neck band holder expanded to fit the neck band. During the pressing operation when the head is brought down on
 40 the buck, the neck yoke due to the heated plate 5 is pressed, giving the shirt a neat appearance in the package although probably not as neat as the special machines used for
 45 pressing high grade expensive shirts, although neat enough for the cheaper grades of shirts.

Preferably, the neck band holder also includes another form of neck band clamp used interchangeably with the expander 8
 50 and not requiring that the ends of the neck band 6 be buttoned together. Some shirts with collars attached have buttons that can be used to secure the ends of the neck band around the holder. In other shirts a collar
 55 button must be used. The clamp about to be described is to eliminate the use of the collar button. This neck band clamp is in the form of a loop 24 having its ends secured to a
 60 block 25 which is pivoted at 26 to the upper end of uprights 27 which in turn are pivoted at 28 to lugs on the standards 16. The neck band clamp thus has a right and left
 65 swinging movement due to the movement of the uprights 27, and also an up and down movement due to the swinging of the loop 24 about its axis 26. These movements are effected by a handle 29 and suitable motion

transmitting connections between the handle 29 and the uprights 27 and between the handle and the block 25.

In the illustrated embodiment of my invention, the handle 29 is carried by a shaft 30 mounted in the uprights 16 and having a
 70 cam or a three arm lever 31 thereon, one arm of which is connected by 32 to the swinging upright 27 and another arm of which is connected by a link 33 to an arm 34 extending
 75 from the block 25 and the third arm of which is connected to an arm 45 which is connected to the upright 27. The link 32 extends lengthwise through an angular arm 35 on the upright 27 and has a spring 36 encircling the
 80 same thrusting at one end against an abutment 37 on the link 32 and at its other end against an abutment 38 slidable on the link and arranged to come against a wall or shoulder 39 at the outer end of said arm 35 after
 85 the loop 24 has been swung down into horizontal position on the buck, the link 32 sliding through this wall 39. The link 33 is in two sections, one a rod 40 slidable in a sleeve 41. A tension spring 42 encircles the rod 40
 90 within the sleeve 41 and is fixed at its upper end to the sleeve and at its lower end to the rod. The third arm of the lever 31 has a rod pivoted at 44 thereto which extends downwardly through an arm 45 at the lower end
 95 of the upright 27. A spring cushioning 46 is interposed between the lower side of said arm 45 and nut 47 on the rod 43, and a spring 48 encircles the rod 43 and thrusts against the upper side of the arm 45 and against the
 100 abutment at the upper end of the rod 43.

In operation, when the loop 24 is to be used, the carriage 14 is first swung downwardly over the plate or into the neck band of the shirt. The handle 29 is then moved from its
 105 position shown in Figure 1 to that shown in Figure 2. The first movement of the handle swings the upright 27 upwardly and also at the same time, swings the loop 24 downwardly and at the start of this operation, a stop
 110 nut 50 at the outer end of the link 32 is against the wall 39. The motion of the handle 29 is transferred to the part 45 through the spring 48 on the rod 43. The loop 24 comes down onto the shirt approximately
 115 one-half inch away from the body 7 of the neck band holder or the neck band thereon and at about the time this occurs, the spring abutment 38 comes against the wall 39 and tensions the spring 36. Further movement
 120 of the handle 29 moves the rod 32 endwise and tensions or compresses the spring 36 so that it shifts the arm 27 outwardly to pull the loop 24 into snug engagement with the collar band and during this movement as
 125 the loop can not have further pivotal movement, the spring 42 which is fixed at its upper end to the sleeve 41 tensions or yields. When the lever 29 has been moved to its full extent, the pivotal point of the link 32 to the lever
 130

31 passes below the center of the shaft on which the handle 29 is mounted and locks toggle fashion. Also, the link or rod 43 or the upper end thereof moves from one side to the other of a vertical plane a dead center line containing the axis of the shaft on which the handle 29 is mounted and further locks the parts in their operated position, the spring 46 acting as a cushioning or compensating spring to permit this movement of the link 43.

To reset the parts, the lever 29 is moved upwardly from its position shown in Figure 2 when the reverse of this operation takes place.

The construction of the neck band holder here shown, forms no part of this invention.

What I claim is:

1. A pressing machine including a buck having a padding thereon, a neck yoke pressing plate on the padding, a neck band holder shiftable into and out of position over the neck yoke plate with the neck yoke interposed between the neck band holder and the plate.

2. A pressing machine including a buck, a neckband holder including a body and a movable clamp for clamping a neckband against the body, a support for the neckband holder beyond one end of the buck, means for shifting the body and clamp of the neckband holder relatively to the support entirely clear of and beyond the edge of the buck.

3. A pressing machine including a buck, the buck having padding thereon, a metallic ironing plate overlying the padding, a neck band holder, a support for the neck band holder beyond one end of the buck, means for moving the neck band holder entirely clear of the buck and beyond one end thereof and shifting it into a position overlying the plate whereby the plate irons the neck yoke of a shirt while the neck band holder is in position to hold the neck band.

4. A pressing machine including a buck, a support at one end of the buck, a neck band holder including a body pivoted to the support and movable on its pivot to move the neck band holder into and out of a position overlying the buck, the neck band holder also including a clamp in the form of a loop carried by the support and movable toward and from the body to clamp the neck band against the body and also movable upwardly and downwardly relatively to the body into and out of clamping position with the body and means carried by the support for operating the clamp into and out of clamping coaction with the body, the body of the neck band holder being shiftable on its pivot into and out of a position overlying the buck independently of the clamp.

5. The combination with a collar and neck band holder for pressing machines having a buck with a padding thereon, of a pressing

plate overlying the padding under the neck band holder, the plate having a stem extending through the padding and slidably secured to the buck.

6. A pressing machine including in combination a buck having a padding thereon, a pressing plate overlying a portion only of the padding at one end of the buck and located to iron the under side of the portion of the garment overlying it during the pressing operation, the plate having a stem extending through the padding and contacting with the buck.

In testimony whereof, I have hereunto signed my name at Syracuse, in the county of Onondaga, in the State of New York, this 27th day of April, 1927.

ALBERT B. CLISSON.