

Oct. 4, 1949.

G. C. WATSON

2,483,682

IRONER

Filed May 14, 1948

2 Sheets-Sheet 1

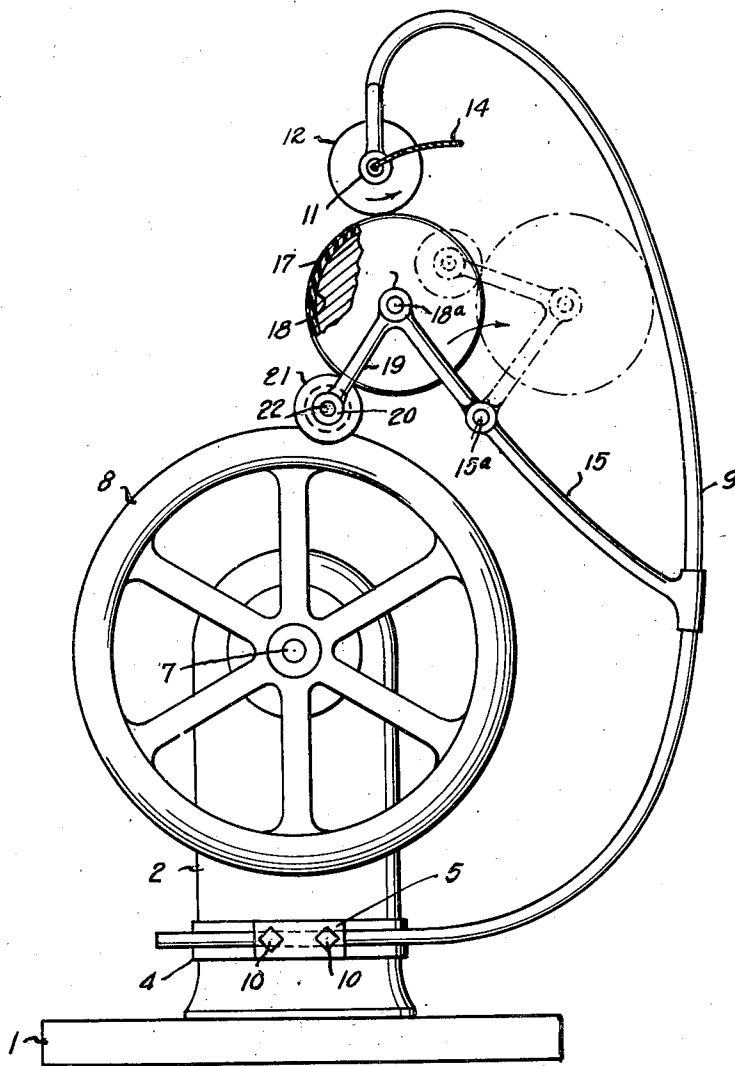


Fig. 1.

Inventor
Bertrude C. Watson

By

E. V. Hardway
ATTORNEY.

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2 Sheets-Sheet 2

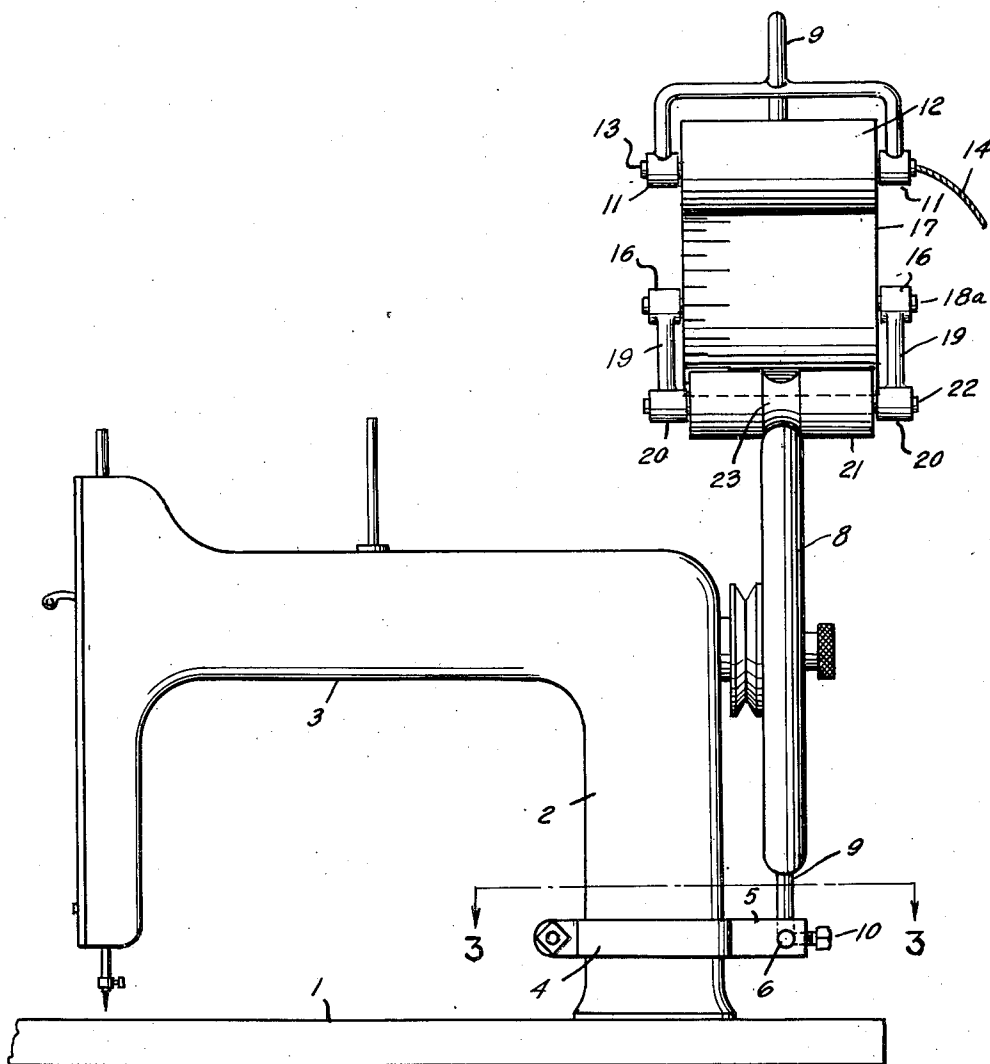


Fig. 2.

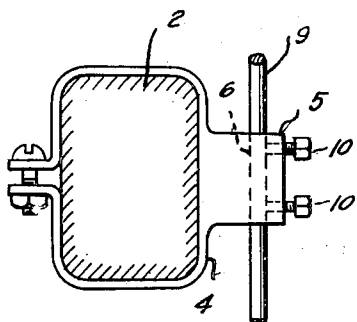


Fig. 3.

334

Inventor
Gertrude C. Watson.

E. J. Hardaway,
ATTORNEY.

UNITED STATES PATENT OFFICE

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IRONER

Gertrude C. Watson, Houston, Tex.

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2 Claims. (Cl. 38—2)

1

This invention relates to an ironer.

An object of the invention is to provide equipment of the character described specially designed to be mounted on and driven by a sewing machine and which is specially useful in ironing the seams of the garment or other article while the same is in the process of construction.

In carrying on sewing operations it is necessary, or at least desirable, to iron the seams as the work progresses. The type of sewing machine attachment herein described has been specially designed for that purpose.

It is another object of the present invention to provide a sewing machine attachment wherein the pressing roller may be conveniently heated to the desired temperature.

It is a further object of the invention to provide a sewing machine attachment of the type herein described which may be readily moved into inactive, or inoperative, position when not in use.

The equipment is of such character that it may be readily attached to, and bodily removed from, the sewing machine as desired.

Other objects and advantages will be apparent from the following specification which is illustrated by the accompanying drawings, wherein:

Figure 1 is an end view of a sewing machine showing the attachment in operative position and shown partly in section.

Figure 2 is a front elevational view thereof, and

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

Referring now more particularly to the drawings wherein like numerals of reference designate the same parts in each of the figures, the numeral 1 designates the supporting base of a conventional sewing machine and the numeral 2 designates an upstanding bracket supported by said base and in turn supporting the horizontal arm 3 which carries the needle operating mechanism.

Surrounding the base of the bracket 2 there is a removable clamp 4 of any selected design. As illustrated this clamp is provided with an extension 5 having a horizontal bearing 6 there-through.

The machine is equipped with the conventional driving shaft 7 on which the conventional momentum wheel 8 is fixed.

There is an arcuate supporting arm 9 one end of which extends through the bearing 6 and may be adjustably secured therein by means of the clamp bolts 10, 10 which are threaded into the extension 5. This arm curves rearwardly and its upper end is downwardly and forwardly turned

2

and formed into an inverted U-shaped bracket which carries the transversely aligned bearings 11, 11.

Between these bearings there is an ironing roller 12 whose shaft 13 is mounted to rotate in said bearings. This ironing roller 12 is provided with a suitable internal electric heating coil of any conventional construction which is connected with a suitable source of electricity through an electrical conductor 14.

Fixed to the arm 9 there is a forwardly and upwardly extended bracket 15 whose upper end is of U-shaped formation and connected to the bracket 15 by means of the hinge 15a and terminates in the spaced bearings 16, 16 which are transversely aligned and mounted to rotate between these bearings 16 there is a presser roller 17 which is preferably of greater diameter than the ironing roller 12 and which is surrounded by suitable padding, as 18.

This presser roller 17 is mounted on a shaft 18a mounted in the bearings 16.

Formed integrally with the bearings 16 and extending downwardly and forwardly there are the arms 19, 19 whose forward ends terminate in the transversely aligned bearings 20, 20 and between said bearings 20 there is a driving roller 21 which is fixed on a transverse shaft 22 whose ends are mounted to rotate in the bearings 20.

Preferably this driving roller 21 is provided with a circumferential groove 23 to receive the momentum wheel 8 by means of which the driving roller 21 is turned.

As is indicated in dotted lines in Figure 1 the unit supporting the driving roller and presser roller may be moved rearwardly to inactive position with the driving roller out of contact with the momentum wheel and with the presser roller out of contact with the ironing roller 12.

However, when it may be desired to press a seam, or garment, the driving and presser roller assembly may be moved forwardly to carry the driving roller into contact with the momentum wheel and the presser roller into contact with the ironing roller and said rollers will be thereby driven from the momentum wheel and the seam or other portion of the garment to be pressed may be passed between the rollers 12 and 17 until the ironing operation has been completed.

It should be here noted that the supporting arm 9 is sufficiently flexible to allow the ironing roller 12 to yield upwardly a sufficient distance to receive the garment between it and the presser roller.

When the work has been completed the clamp

3

bolts 10, 10 may be released and the supporting arm 9 and its appendants removed from the sewing machine and laid aside until the ironer is again needed.

What is now considered to be a preferred form of the invention has been shown and described but by way of illustration only and not by way of limitation; while the broad principle of the invention will be defined by the appended claims.

What I claim is:

1. Ironing equipment comprising, a support, a momentum wheel thereon, a supporting arm mounted on the support and having a pair of spaced bearings, an ironing roller mounted between said bearings, a forwardly extended bracket mounted on the arm and terminating in spaced bearings and formed with a hinge, a presser roller mounted to rotate between said bearings, spaced arms extending forwardly from the said last mentioned bearings and also having spaced bearings, a driving roller mounted to rotate between the bearings of said spaced arms and in constant contact with the presser roller, said presser roller being movable on said hinge into and out of co-acting relation with the ironing roller.

4

2. Equipment adapted for use in connection with a sewing machine which includes a support and a momentum wheel; said equipment comprising a supporting arm adapted to be mounted on said support and having a pair of spaced bearings, an ironing roller mounted between said bearings, a forwardly extended bracket mounted on the arm and terminating in spaced bearings and formed with a hinge, a presser roller mounted to rotate between said bearings, spaced arms extending forwardly from the said last mentioned bearings and also having spaced bearings, a driving roller mounted to rotate between the bearings of said spaced arms and in constant contact with the presser roller, said presser roller being movable on said hinge into and out of co-acting relation with the ironing roller.

GERTRUDE C. WATSON.

REFERENCES CITED

The following references are of record in the file of this patent:

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