

March 29, 1932.

H. C. FAULKNER

1,851,501

NECKBAND CLAMP

Filed Nov. 24, 1930

Fig. 1.

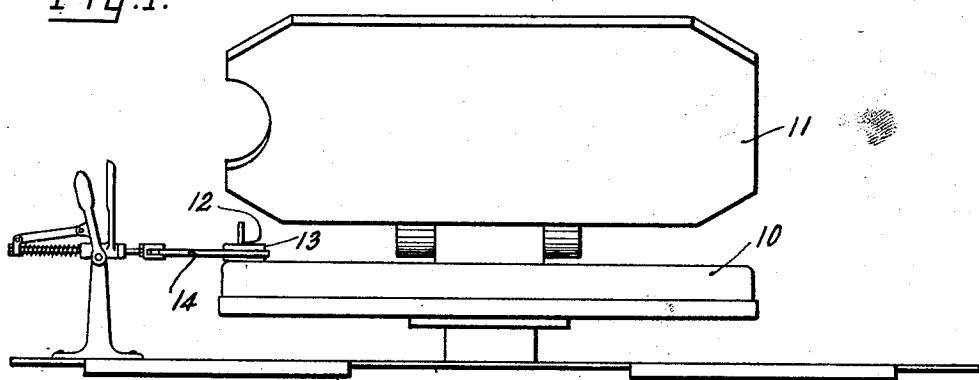


Fig. 3.

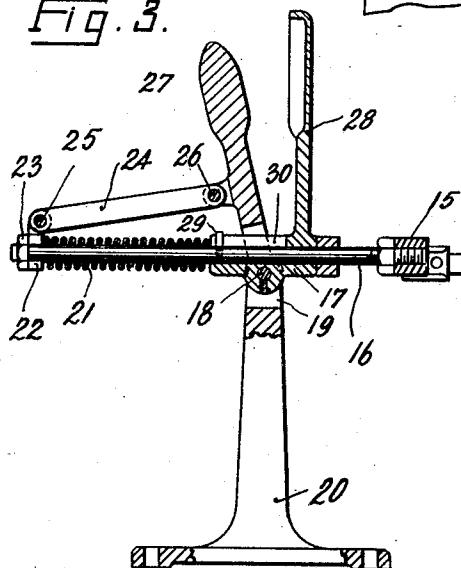


Fig. 2.

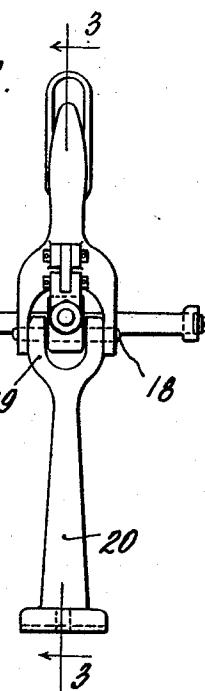
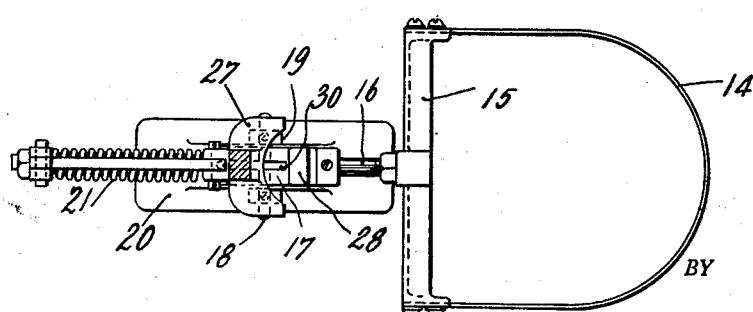


Fig. 4.



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NECKBAND CLAMP

Application filed November 24, 1930. Serial No. 497,744.

This invention relates to neckband clamps for holding the neckbands of shirts in position on laundry presses. One object of the invention is to provide a clamp of this character capable of being operated by one hand and without substantial effort. A further object is to provide a clamp having a grip operable by closing the fingers to remove the tension with which the clamp grips the form block, and in which the grip can then be moved as a unit to shift the released clamp to or from its clamping position. A further object is to provide a clamp of simple and inexpensive construction.

Referring to the drawings,

Fig. 1 is a front elevation of the neckband clamp shown in association with a laundry press;

Fig. 2 is a side elevation looking from the left in Fig. 1 and on a larger scale;

Fig. 3 is a section on line 3—3 of Fig. 2; and

Fig. 4 is a top plan view of the clamp, with one of the hand grips broken away to show the underlying parts.

In the laundering of shirts it is usual to provide a neckband former or block located at one end of the lower head of the press, around which the neckband is fitted before the press head is closed, a clamp mechanism being provided to hold the fitted neckband in position. In the drawings the lower press head has been shown at 10 and the movable upper head at 11. A suitable operating mechanism, not necessary to show here, will of course be provided for lowering the upper head into pressing contact with the lower head. The heads are heated, as is customary, by any desired means.

A neckband block or former 12, having a generally semi-circular front surface 13, is secured to the lower head near one end. A clamping band 14, shaped on its forward end to correspond with the surface 13, is mounted upon a carrier 15. This carrier is fixed upon the forward end of a rod 16 slidable in a block 17. A pin 18 passes through this block and through the yoked upper end 19 of a standard 20 secured to the frame of the press. The rod, carrying with it the band 14, is

thus permitted a sliding motion and also a rocking motion about the pin 18 as a pivot. Surrounding the rod 16 is a spring 21 bearing at one end against the block 17 and at the other against a collar 22 held in place on the rod by a nut 23. The collar is forked at its upper side to receive a link 24, coupled to it by a pin 25. The other end of the link is pinned at 26 to a handle lever 27 forked at its lower end to straddle the block 17 and pivoted upon the pin 18. A coacting handle 28 is attached to or formed integral with the block 17, the two handles forming together a convenient grip.

By squeezing the handles, the rod 16 will be pushed to the right as viewed in Fig. 3, overcoming the resistance of the spring 21 and shifting the band 14 to a position clear of the forward surface of the former 12. The rod is kept from turning during this motion by a pin 29 on the rod which runs in a slot 30 formed in the block. With the handles pressed together the block, rod, and band can be rocked counterclockwise as viewed in this same figure, removing the band from proximity to the former 12 so that an ironed shirt may be removed from the press or another shirt put in place. The operation has been described as if the clamp were being removed from the former, but a similar action is of course performed to place the clamp over the neckband former when a fresh shirt has been positioned. Either operation can obviously be carried out with the use of one hand only, the squeezing of the handles 27, 28 serving to place the band in position where it can be slipped over or off of the former, and a turning motion about pin 18 as a center serving to rotate the block 17 and the band into either its active or its inactive position.

What I claim is:

1. A neckband holder comprising a neckband former, a support, a block pivoted to the support for swinging movement about a horizontal axis, a rod slidable in the block in a direction at right angles to said axis, a neckband clamp carried by the rod in position to encircle the neckband former, a spring acting on the rod to move it in such a direction

as to press the clamp against the former, a two-part handle grip carried by the block, one part being fixed and the other movable, and a connection between the movable part 5 of the handle grip and the rod so that the rod will be shifted in the block to move the clamp away from the former when the two parts of the handle grip are moved together and the clamp when so released may be swung away 10 from the former by rocking the block upon its pivot.

2. A neckband holder comprising a neckband former, a support, a block pivoted to the support for swinging movement about a 15 horizontal axis, a rod slideable in the block in a direction at right angles to said axis, a neckband clamp carried by the rod in position to encircle the neckband former, a collar on the end of the rod remote from the clamp, a 20 spring compressed between the block and the collar, a handle fixed to the block, a second handle pivotally mounted in the block about said horizontal axis, said handles extending substantially parallel to and adjacent each 25 other, and a link connecting the second handle with the collar.

3. A neckband holder comprising a neckband former, a support, a neckband clamp adapted for cooperation with the former, a 29 two-part handle grip, one part being fixed and the other movable, means connecting the movable part of the handle grip with the neckband clamp whereby movement of the two parts of the handle grip towards each 34 other will cause longitudinal motion of the neckband clamp relative to the support in a direction to release it from the former, and means connecting the handle grip and the clamp whereby rocking of the handle grip 44 will cause rocking of the clamp to move it into or out of registration with the neckband former.

4. A neckband holder comprising a neckband former, a support, a block pivoted to the 45 support for swinging movement about a horizontal axis, a rod slideable in the block in a direction at right angles to said axis, a neckband clamp carried by the rod in position to encircle the neckband former, a spring acting 50 on the rod to move it in such a direction as to press the clamp against the former, a two-part handle grip carried by the block, one part being fixed and the other movable, and a 55 leverage increasing connection between the movable part of the handle grip and the rod so that the rod may easily be shifted in the block against the resistance of the spring to move the clamp away from the former when the two parts of the handle grip are moved together and the clamp when so released may be swung away from the former by rocking the block upon its pivot.

In testimony whereof I have affixed my signature:

HAROLD C. FAULKNER.