May 26, 1931. L. G. WHITE 1,806,727

ELECTRIC DRIER

Filed May 10, 1928 2 Sheets-Sheet 1

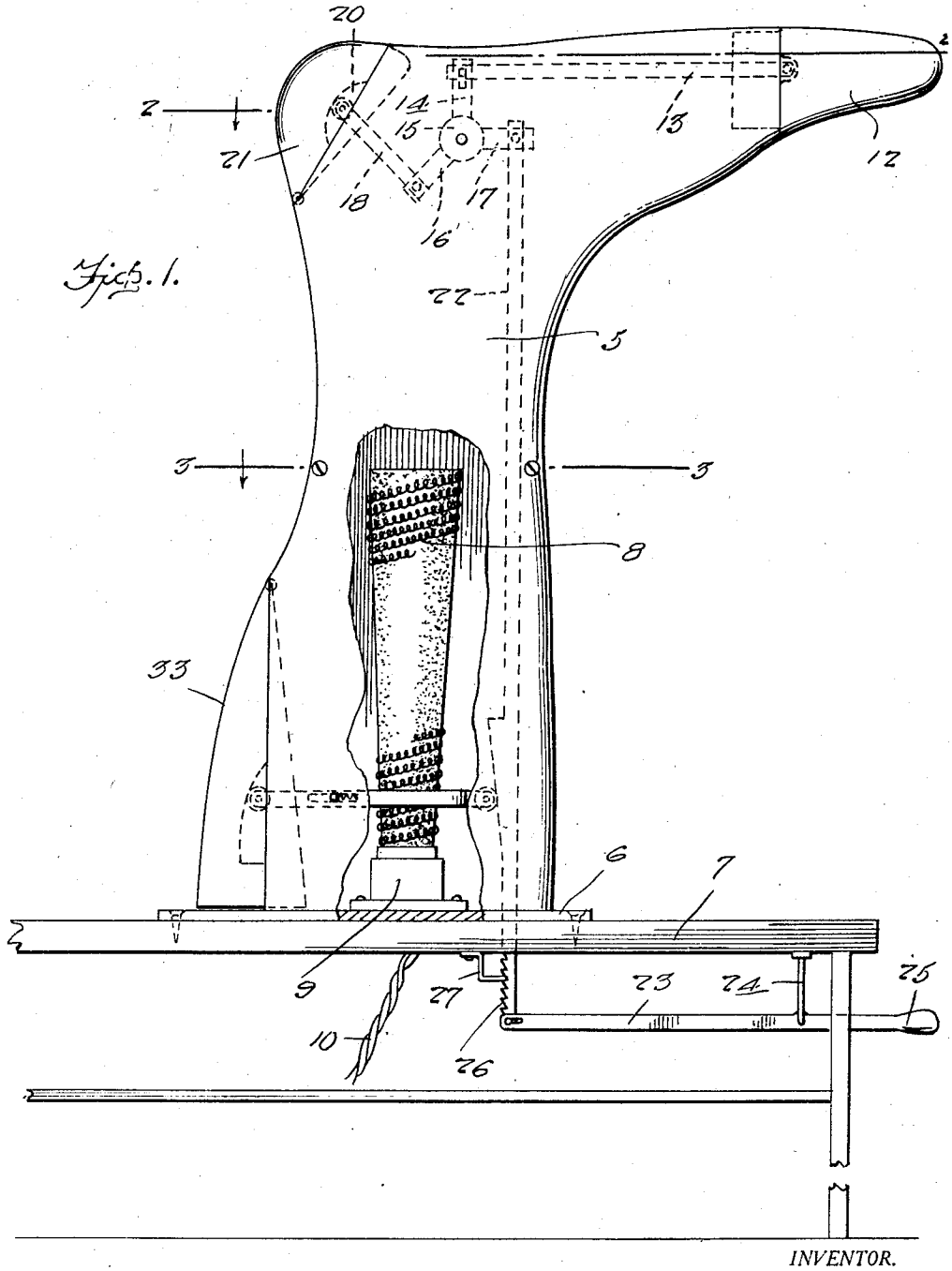


Fig. 1.

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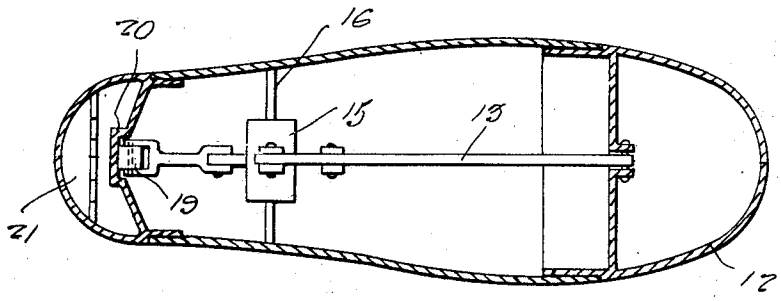


Fig. 2.

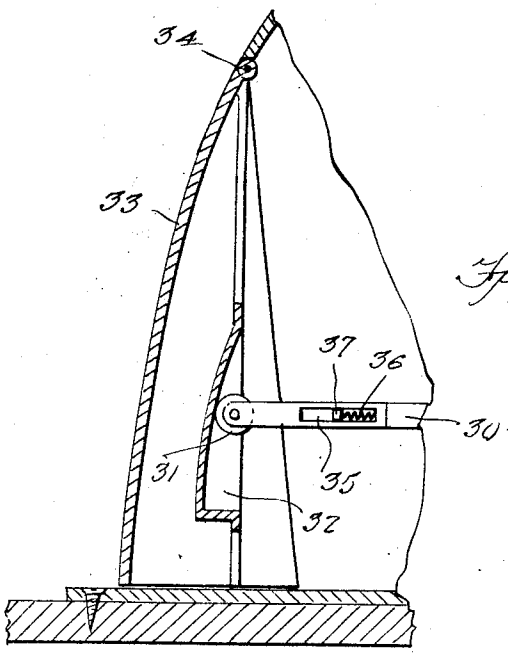


Fig. 4.

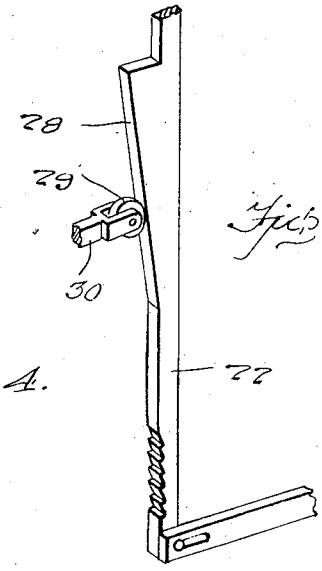


Fig. 5.

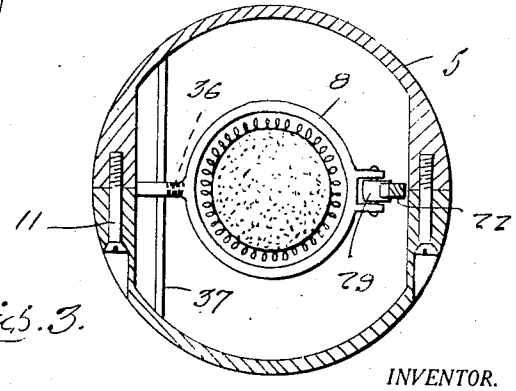


Fig. 3.

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Patented May 26, 1931

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UNITED STATES PATENT OFFICE

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ELECTRIC DRIER

Application filed May 10, 1928. Serial No. 276,667.

This invention relates to electric driers and ironers and has for an object to provide a stocking form of a hollow construction and within which is arranged an electric heating element adapted to heat the form and transmit the same to the stocking arranged thereon, the form being adjustable as to size so as to permit the stocking to fit snugly thereon so that the same may be dried on the form in its natural shape.

A further object of the invention is to provide adjusting means for the toe, heel and calf of the stocking form operable from a position outside of the form so as to enable the adjustment thereof to the size of a stocking without necessitating the removal of the stocking therefrom.

A still further object is to provide an apparatus of this character of simple and practical construction, which is efficient and reliable in performance, inexpensive to manufacture and maintain in operation and otherwise well adapted for the purposes for which the same is intended.

Other objects and advantages reside in the special construction, combination and arrangement of the various elements forming the invention as more fully hereinafter described and claimed, reference being had to the accompanying drawings forming part hereof, wherein like numerals refer to like parts throughout the specification and in which

Figure 1 is a view in side elevation of the device mounted in operative position, with parts shown in section,

Figure 2 is a transverse sectional view through the foot portion of the form taken along a line 2—2 of Figure 1,

Figure 3 is a similar view taken along a line 3—3 of Figure 1,

Figure 4 is a fragmentary detail showing the manner of adjusting the size of the calf of the form, and

Figure 5 is a fragmentary perspective view of the size adjusting link.

Referring now to the drawings in detail, the invention comprises a stocking form indicated generally at 5 arranged in an inverted position, with the foot portion uppermost and mounted upon a base 6 suitably secured to a table or work bench 7.

The form is of a hollow construction and extending upwardly therein is arranged an electric heating element 8 of a construction well known in the art for radiating heat generated by electricity and mounted upon a socket member 9 secured to the base 6 within the form and with which is connected the heating element of a suitable source of current.

The form preferably is constructed of a pair of vertically split sections connected together along one edge by screws 11 as clearly shown in Figure 3 and by means of which the adjusting mechanism may be suitably mounted in position within the form.

The toe portion 12 of the form is telescopically carried thereon and to the inner portion of the telescoping section is connected one end of a rod 13 having its opposite end attached to an arm 14 extending radially from one side of a drum 15 rotatably mounted upon a shaft 16 disposed transversely within the foot portion of the form. The drum also carries radially extending arms 16 and 17 respectively, the arm 16 being attached to one end of a rod 18 having a roller 19 mounted at its opposite end and seated within a recess 20 formed at the inner portion of a hingedly mounted heel section 21.

The arm 17 is connected with a link 22 extending vertically in the form and downwardly through the base 6 thereof to a position beneath the work table.

The lower end of the link 22 is attached to an operating lever 23 extending horizontally at right angles to the link 22 and pivotally mounted intermediate its ends upon a support 24 and with its free end forming an operating handle 25. The lower portion of the link is provided with a series of ratchet teeth 26 engageable with a dog 27 secured to the underside of the work table 7 for retaining the link in vertically adjusted position. A section of the link 22 disposed within the form adjacent the lower end thereof is provided with an inclined edge 28 upon which is adapted to

ride a roller 29 mounted at one end of a horizontally disposed rod 30 with its opposite end extending toward the rear portion of the form and also provided with a roller 31 seated within a recess 32 formed in the inner portion of a hingedly mounted calf section 33, hingedly connected along its upper edge as shown at 34 to the rear wall of the form.

The rod 30 is also provided with a slotted opening 35 within which is arranged a coil spring 36 and co-acting with a pin 37 arranged on the inner portion of the form for normally urging the rod 30 into engaged position with the inclined edge 28. It will be observed from an inspection of Figure 1 that the manner of hingedly connecting the heel section 21 and calf section 33 enables the same to swing toward the form of its own weight.

In order to adjust the toe, heel and calf sections to a larger size, the handle 25 is raised upwardly a predetermined extent which thereby will move the link 22 downwardly causing the rod 30 engaged by the inclined edge 29 to move the calf section outwardly and at the same time the link will rotate the drum 15, which through its connection with the arms 14 and 16 will move the rods 13 and 18 outwardly and as a consequence the toe and heel sections will also be moved outwardly an equal extent to its larger position.

It will be obvious that by placing a stocking or sock upon the form and adjusting the sections to cause a snug fit therewith and energizing the heating element 8, the stocking will be dried and by reason of its snug fit wrinkles will be prevented from forming therein thereby leaving the stocking in a substantially ironed condition.

It is obvious that the invention is susceptible of various changes and modifications without departing from the spirit thereof or the scope of the appended claims, and I accordingly claim as my own all such forms of the invention to which I am entitled.

I claim:

1. In combination, a hollow stocking form, a base for securing the same in inverted position, a heating element arranged within the form, toe, heel and calf sections adjustably carried by the form and means extending through the base operable outwardly thereof and operatively connected to each of said sections for simultaneously adjusting the sections.

2. In combination, a hollow stocking form, a base for securing the same in inverted position, a heating element arranged within the form, toe, heel and calf sections adjustably carried by the form, a rotating member mounted within the form, reciprocal means connecting the member with said toe and heel sections for uniformly adjusting said sections upon the rotation of said member, a reciprocal member operatively associated with said calf section for adjusting the latter and a link operatively connected to said rotating member and said calf adjusting member and operable outwardly of the form for uniformly adjusting each of said sections.

3. In combination, a hollow stocking form arranged in inverted position, an electric heating element arranged therein, said form being composed of a pair of longitudinally split sections, a toe portion telescopically arranged thereon, hingedly connected heel and calf portions for the form, a drum rotatably mounted in the form having a plurality of arms extending radially therefrom, rods connecting certain of said arms with said toe and heel portions for adjustably operating the same, a vertically disposed link connected to one of said arms and extending outwardly through the lower portion of the form, said link having an inclined edge formed thereon, a horizontally disposed rod having rollers at each end and engageable respectively with said hingedly mounted calf section and said inclined edge of the link for adjustably operating the former, an operating lever operatively attached to the lower end of the link and means engageable with the link for securing the same in adjusted position.

In testimony whereof I affix my signature.

LILLIE G. WHITE.