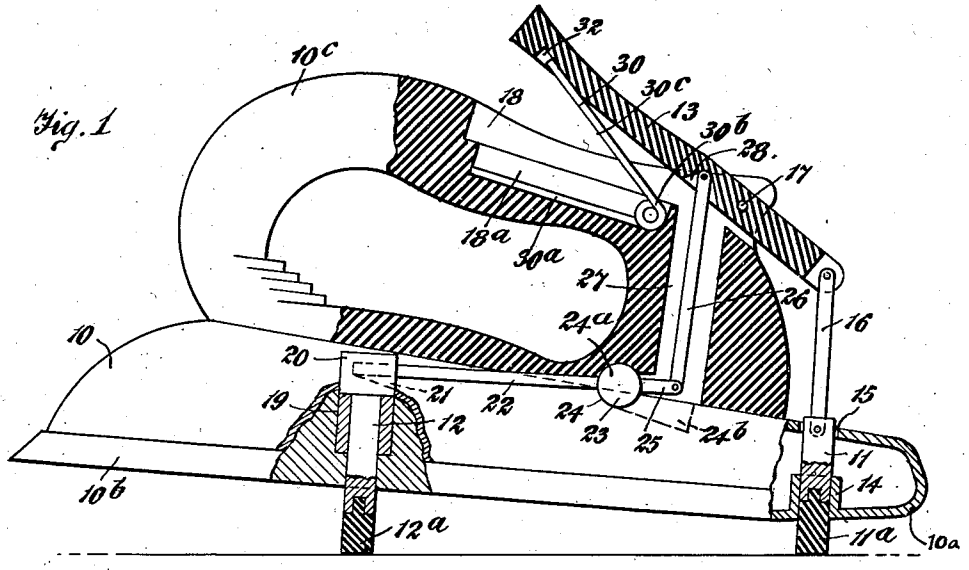
Dec. 17, 1940. H. BURIAN 2,224,896

SADIRON LIFTING MEANS

Filed Nov. 3, 1939

Fig. 1



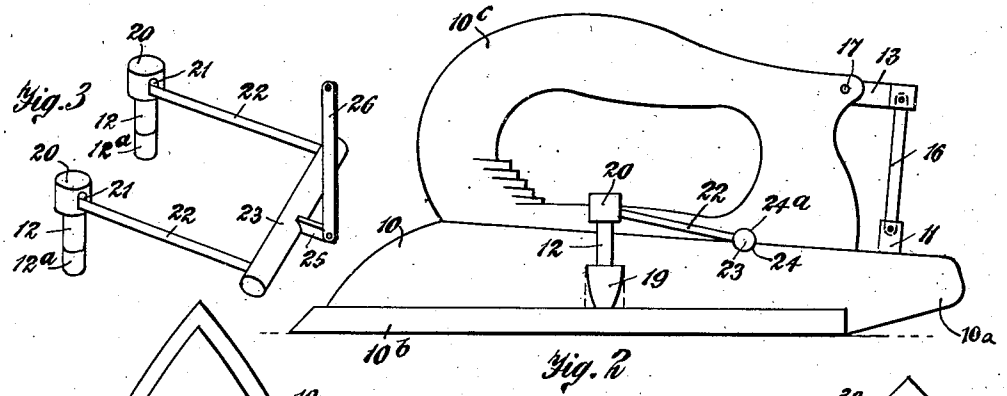


Fig. 3

Fig. 2

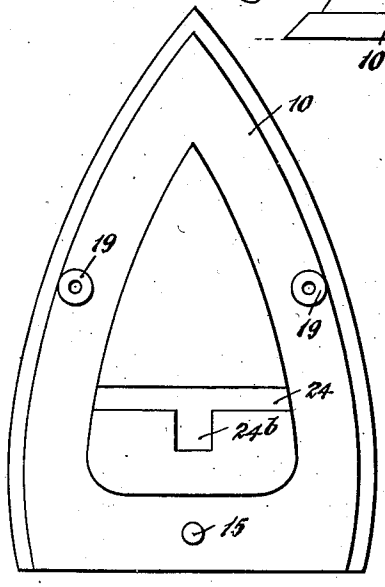


Fig. 4

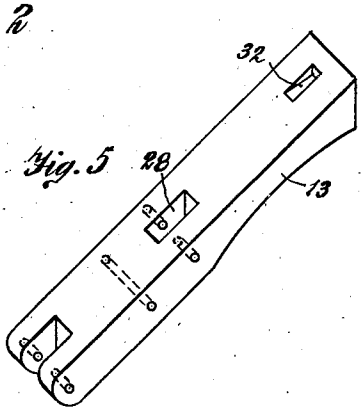


Fig. 5

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UNITED STATES PATENT OFFICE

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SADIRON LIFTING MEANS

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Application November 3, 1939, Serial No. 302,639

4 Claims. (Cl. 38—79)

This invention is an improvement over my abandoned patent application Serial No. 133,590, filed March 29, 1937.

This invention relates to new and useful improvements in a sadiron lifting means.

The invention proposes in combination with a sadiron, a lifting means which is characterized by a fulcrum rod projecting from the heel of said sadiron upon which the iron may swing, and a plurality of support rods projecting through the bottom of the iron forward of its heel and projecting a greater distance than said fulcrum rod to hold the front tip of the iron at a higher elevation than said heel.

Still further the invention contemplates a means for retaining said rods in a projecting position to hold the iron lifted, and said means including a depressible lever for retracting said rods to lower the iron into operating position.

Still further the invention contemplates characterizing the means for maintaining said rods by a spring acting to resiliently hold the rods in their extended positions.

Another object of the invention resides in so arranging the depressible lever that the spring mentioned in the previous paragraph may be manually compressed to retract the rods so that when the lever is released, the spring automatically functions to extend the rods to lift the sadiron.

Another object of the invention is the construction of a device as described which is simple and durable and which may be manufactured and sold at a reasonable cost.

For further comprehension of the invention, and of the objects and advantages thereof, reference will be had to the following description and accompanying drawing, and to the appended claims in which the various novel features of the invention are more particularly set forth.

In the accompanying drawing forming a material part of this disclosure:

Fig. 1 is a side elevational view of a sadiron equipped with lifting means in accordance with this invention, illustrated in its lifted position, and illustrated with portions broken away to disclose interior parts.

Fig. 2 is a side elevational view of the sadiron in its lowered, operating position.

Fig. 3 is a perspective schematic view of the support rods and certain of the parts connected with these rods.

Fig. 4 is a plan view of the sadiron with the handle, the rods, and some of the other mechanism removed.

Fig. 5 is a perspective view of the depressible handle, per se, illustrated with its bottom side up.

The sadiron lifting means, in accordance with this invention, is used in combination with a sadiron 10 of any design and construction having a heel portion 10*a*, a front tip portion 10*b*, and a handle 10*c*. A fulcrum rod 11 projects from the said heel portion 10*a* and is adapted to support the heel portion and to act as a fulcrum about which the front portion of said iron may swing.

A plurality of support rods 12 project through the bottom of the iron forwards of its heel portion, and project a greater distance than the distance of projection of the fulcrum rod 11. These support rods 12 serve to hold the front tip of the iron in a higher elevation than its heel. Each of the rods 11 and 12 is provided with a tip portion 11*a*, and 12*a* respectively, of heat insulating material to prevent the transfer of heat from the iron to the support object upon which the iron is rested.

A means is provided for retaining the rods 11 and 12 in their projecting positions to hold the iron lifted, and this means includes a depressible handle 13, depressible to retract the rods 11 and 12 to lower the iron into operating position. More specifically, the fulcrum rod 11 is slidably mounted in a tubular socket 14 formed or mounted on the heel portion 10*a*. The rod 11 projects through an opening 15 in the top of the heel portion. A link 16 pivotally connects with the projecting end of the rod 11 and pivotally connects with the tail end of the lever 13. The lever 13 is pivotally supported intermediate of its ends by a pintle 17. The handle 10*c* is formed with a recess 18 into which the lever 13 may engage when depressed.

The rods 12 are also slidably mounted, and slidably engage through tubular bushings 19 which are set into the material of the body of the sadiron in the sides thereof. The rods 12 project above the tubular bushings 19 and at their upper ends are formed with large heads 20. These large heads 20 have openings 21 extended inwards from their rear sides. The front ends of arms 22 engage into the openings 21.

The arms 22 radially project from a rock shaft 23. This rock shaft is disposed within a curved socket recess 24 formed in the top of the body of the iron 10. The handle 10*c* is formed with a complementary recess 24*a* engaging over the top half of the rock shaft 23 to assist in holding the rock shaft so that it may merely rock forwards and rearwards. A short arm 25 radially projects from the rear side of the rock shaft 23 and is engaged within a recess 24*b* continuing rearwards from the central portion of the recess 24. A link 26 pivotally connects with the arm 25 and extends upwards through the passage 27 in the handle 10*c*. At its upper end this link 26 is pivotally connected with the handle 13. The handle 13 is formed with a recess 28 into which the upper end of the link 26 engages.

This recess is to the front of the pivot 17 of the lever 13. At the rear end the lever 13 is formed with a bifurcated end, and the upper end of the link 16 engages between the fingers of this bifurcated portion.

An expansion spring 30 is set into a recess 18a extended downwards into the handle 10c from the base of the recess 18. This spring 30 has a bottom arm 30a engaging into the recess 18a. This bottom arm connects with the coiling central portion 30b of the spring which continues into a top arm 30c which engages the lever 13. The front end of the lever 13 is formed with a small recess 32 into which the end of the arm 30c of the spring engages.

The operation of the device is as follows:

In Fig. 1 the sadiron is shown in its normal inoperative position. In this position it is raised and supported by the projectng rods 11 and 12. Consequently, the object upon which the iron rests is protected from scorching.

When the handle 10c of the iron is gripped, the front end of the lever 13 will be depressed. This will cause the link 26 to move downwards which indirectly pivots the rock shaft, moving the arms 22 upwards which in turn lift up the rods 12 so that the front tip of the iron is no longer supported. Simultaneous with this action the link 16 will be lifted, since it is connected with the rear end of the lever 13 which moves upwards. The link 16 directly lifts the rod 11.

The means for retracting the rods 11 and 12 is so designed that the rods 12 will be moved a greater distance than the rod 11. It is for this reason that the rod 11 acts not only to lift the heel of the iron but acts as a fulcrum about which the front portion of the iron may swing. When the front end of the lever 13 is depressed, the rods 11 and 12 will move upwards until their lower ends are substantially flush with the bottom face of the iron. When the lever 13 is released the spring 30 will immediately move its front end upwards, which indirectly controls the extension of the rods 11 and 12. The rod 11 will be extended a lesser distance than the rods 12 so that the front tip of the iron will be elevated to a greater distance than the rear end. This is advisable in that it is the front portion of the iron which attains the higher temperature. By keeping the heel of the iron at a lower elevation the stability of the entire raised iron is increased since its center of gravity will be lower.

While I have illustrated and described the preferred embodiments of my invention, it is to be understood that I do not limit myself to the precise constructions herein disclosed and the right is reserved to all changes and modifications coming within the scope of the invention as defined in the appended claims.

Having thus described my invention, what I claim as new and desire to secure by United States Letters Patent is:

1. In combination with a sadiron having a front tip and a heel end portion, a fulcrum rod projecting from the heel end portion of said sadiron on which the iron may swing, a plurality of support rods projecting through the bottom of said iron forwards of its heel end portion, said support rods projecting a greater distance from the ironing surface than the projected distance from the ironing surface of said fulcrum rod to hold the front tip of said iron at a higher elevation than said heel end portion, means for maintaining all of said rods in their projecting positions to hold the iron lifted, and means for retracting all of said rods to lower the iron into operative position.

2. In combination with a sadiron having a front tip and a heel end portion, a fulcrum rod projecting from the heel end portion of said sadiron on which the iron may swing, a plurality of support rods projecting through the bottom of said iron forwards of its heel end portion, said support rods projecting a greater distance from the ironing surface than the projected distance from the ironing surface of said fulcrum rod to hold the front tip of said iron at a higher elevation than said heel end portion, means for maintaining all of said rods in their projecting positions to hold the iron lifted, and means for retracting all of said rods to lower the iron into operative position, all of said rods being slidably supported.

3. In combination with a sadiron having a front tip and a heel end portion, a fulcrum rod projecting from the heel end portion of said sadiron on which the iron may swing, a plurality of support rods projecting through the bottom of said iron forwards of its heel end portion, said support rods projecting a greater distance from the ironing surface than the projected distance from the ironing surface of said fulcrum rod to hold the front tip of said iron at a higher elevation than said heel end portion, means for maintaining all of said rods in their projecting positions to hold the iron lifted, and including a pivotally mounted depressible lever for retracting all of said rods to lower the iron into operative position, all of said rods being slidably supported, and said means for maintaining the rods including a rock shaft mounted on said sadiron and having forward extending arms engaging said support rods and a rearward extending arm, a link pivotally connected with the rearward extending arm and with said depressible lever at a point to the front of its pivot, and a link pivotally connected with said fulcrum rod and with a point to the rear of the pivot of said depressible lever.

4. In combination with a sadiron having a front tip and a heel end portion, a fulcrum rod projecting from the heel end portion of said sadiron on which the iron may swing, a plurality of support rods projecting through the bottom of said iron forwards of its heel end portion, said support rods projecting a greater distance from the ironing surface than the projected distance from the ironing surface of said fulcrum rod to hold the front tip of said iron at a higher elevation than said heel end portion, means for maintaining all of said rods in their projecting positions to hold the iron lifted, and including a pivotally mounted depressible lever for retracting all of said rods to lower the iron into operative position, all of said rods being slidably supported, said support rods having openings in portions thereof and said means for maintaining the rods including a rock shaft mounted on said sadiron and having forward extending arms engaging said openings in said support rods and a rearward extending arm, a link pivotally connected with the rearward extending arm and with said depressible lever at a point to the front of its pivot, and a link pivotally connected with said fulcrum rod and with a point to the rear of the pivot of said depressible lever, and resilient means acting to urge the front end of said depressible lever upwards.

HENRY BURIAN.