Jan. 13, 1942. R. I. HUFFMAN 2,269,851

SADIRON

Filed Jan. 21, 1941

Fig. 1.

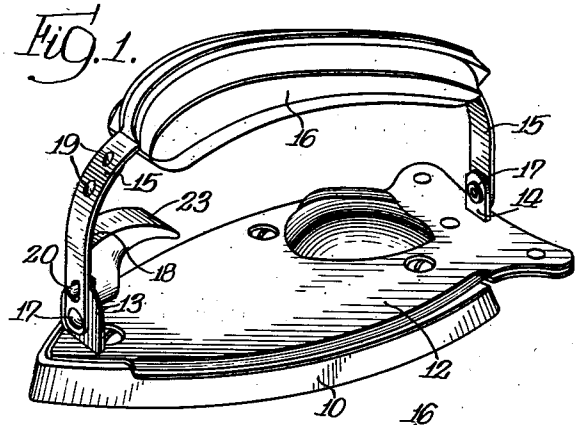



Fig. 2.

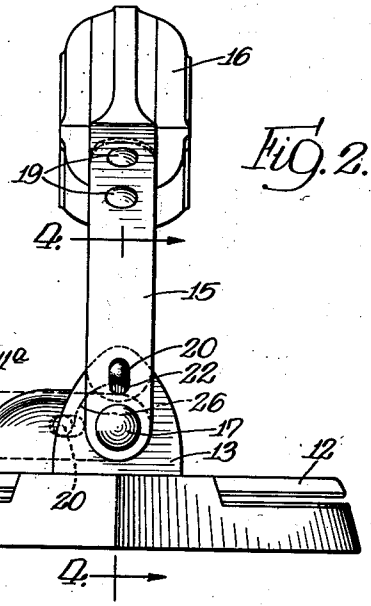



Fig. 4.

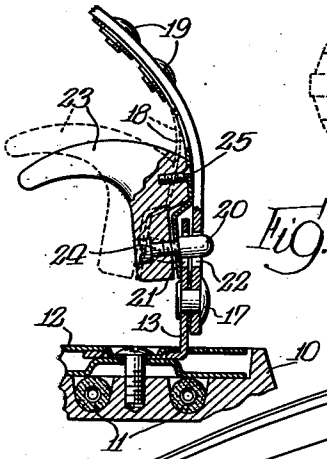
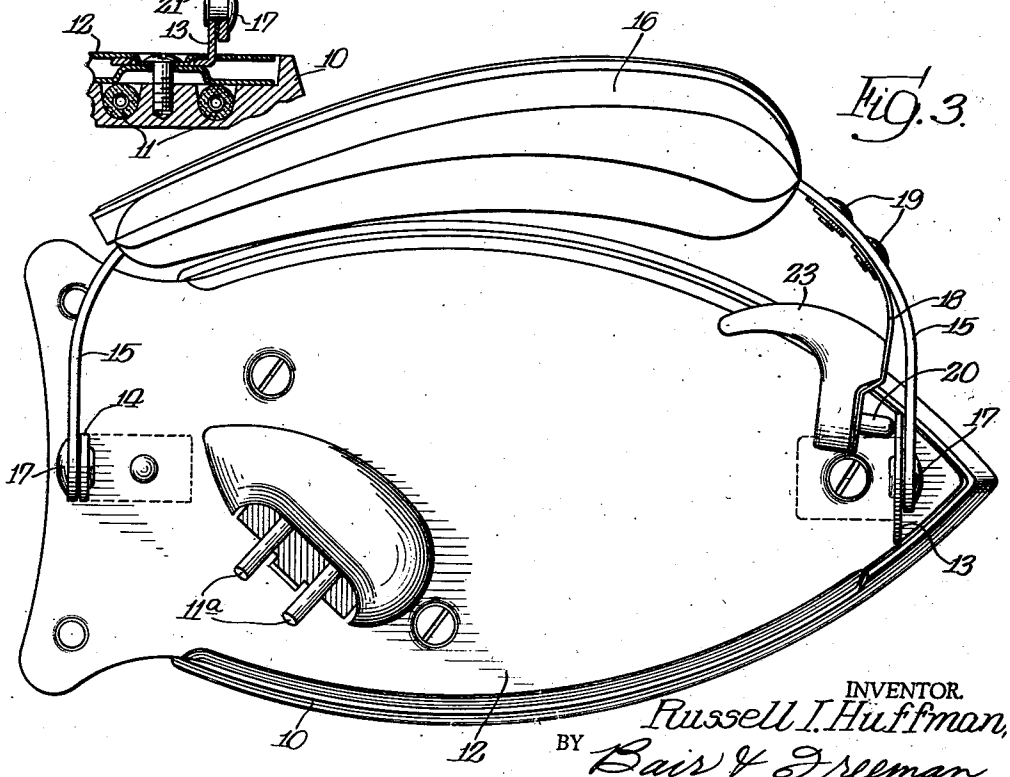



Fig. 3.




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# UNITED STATES PATENT OFFICE

2,269,851

## SADIRON

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Application January 21, 1941, Serial No. 375,313

4 Claims. (Cl. 38—90)

My present invention relates to a compact "travel" iron consisting of a relatively flat sole plate and cover means therefor and a handle which is pivoted to the cover means so that it may assume either a condensed supine position thereon or an upstanding operating position with relation thereto.

One object of my invention is to provide a simple and inexpensive latch means for locking the handle in its upright position, the latch being readily releasable when it is desirable to swing the handle to its supine position and being spring urged to its latched position.

Another object is to provide a handle bow pivoted to perforated ears of the sad iron, with a spring latch pin carried by the handle bow and operable to lockingly coact with a latch perforation in one of the supporting ears for the handle.

Still a further object is to provide the latch located adjacent the front of the iron and provided with a hook shaped knob which may be readily engaged by the finger of the user's hand while the hand grip of the handle is held in his hand, thereby facilitating collapse of the iron to its condensed position for packing in a suitcase or the like.

With these and other objects in view, my sad iron consists in the construction, arrangement and combination of the various parts thereof whereby the foregoing and other objects are attained, as hereinafter more fully set forth, pointed out in my claims and illustrated in the accompanying drawing. Although the invention is susceptible of a variety of embodiments, it is unnecessary to fully describe and illustrate more than one in order to give a full understanding thereof both from structural and functional standpoints. Accordingly, I have illustrated a preferred and desirable embodiment of the invention in the accompanying drawing, in which

Figure 1 is a perspective view of a sad iron embodying my invention;

Figure 2 is an enlarged front elevation thereof showing by solid lines the handle in its operating position and by dotted lines its supine collapsed or folded position;

Figure 3 is a plan view of my sad iron showing the handle in supine position, and

Figure 4 is a sectional view on the line 4—4 of Figure 2, showing the construction of the latch or locking means.

On the accompanying drawing, I have used the reference numeral 10 to indicate a sole plate and 12 a cover therefor. The sole plate 10 is provided with the usual heating element 11 and with terminal prongs 11a for supplying current thereto. The sole plate and the cover, it will be noted, are relatively flat for the sake of compactness, as will hereinafter appear.

Front and rear perforated ears 13 and 14 extend upwardly from the cover plate 12 for supporting a handle consisting of a handle bow 15 and a hand grip element 16. The handle bow 15 is pivoted to the ears 13 and 14 as by rivets 17.

The handle, it will be noted, may assume an upright operating position, as shown in Figure 1, and as shown by solid lines in Figure 2, or a supine position adjacent the cover plate 12, as shown by dotted lines in Figure 2 and as shown in Figure 3. When the handle is in its upright operating position, it is desirable to lock it in such position against accidental pivoting sidewise. For this purpose I provide a latch in the form of a leaf spring 18 secured as by rivets 19 to the front portion of the handle bow 15 and a latch pin 20 carried thereby. The latch pin 20 is adapted to enter a latch perforation in the form of a slightly elongated opening or slot 21 of the front ear 13 and a similar opening 22 in the handle bow 15. The opening 22 provides for a more positive connection resisting shearing strains than if the leaf spring 18 were relied upon alone to support the latch pin 20.

For retracting the latch pin 20 from latched position, I provide a knob 23 in the form of a downwardly opening hook positioned so that it may be readily engaged by the forefinger of the hand of the operator while holding the hand grip 12 in a natural ironing position. The knob 23, the spring 18 and the pin 20 are all secured relative to each other by a pair of screws 24 and 25. The ear 13, it will be noted, is somewhat larger than the ear 14, the purpose of which is to provide a track for the latch pin 20 to engage as the handle 16 is moved to and from supine position.

The latch pin 20 may be retracted as to the dotted position shown in Figure 4 so that the front end of the pin 20 clears the latch opening 21 and the rear surface of the ear 13. The handle 16 may then be started in its sidewise swing, whereupon the knob 23 may be released and the rear surface of the ear 13 will keep the latch pin in retracted position. The front end of the latch pin will follow a path on the rear surface of the ear 13 such as indicated by the dot and dash line 26 in Figure 2. When it is desired to raise the handle to its upright operating position and lock it there, it is merely necessary to swing it to such position and the latch pin 20 will snap into

locking position as soon as it registers with the latch opening 21 of the ear 13.

Having selected one specific embodiment of my invention for illustration and description, I desire it to be understood that this form is selected merely for the purpose of facilitating disclosure of my sad iron rather than for the purpose of limiting the number of forms which it may assume. It is to be further understood that various modifications, adaptations and alterations may be applied to the specific form disclosed to meet the requirements of practice without in any manner departing from the spirit and scope of the present invention except as set forth in the claims appended hereto.

I claim as my invention and desire to secure by Letters Patent of the United States:

1. A sad iron comprising a relatively flat sole plate, cover means therefor, a pair of perforated ears extending upwardly from said cover means, a handle pivoted to said ears to assume either a supine position sidewise on the cover means or an upstanding position relative thereto, and releasable means for locking said handle relative to said cover plate in the upstanding position of the handle comprising a leaf spring carried by the handle adjacent one of said ears, a latch pin carried by said leaf spring, said last ear having a perforation spaced from the pivotal connection of the ear to the handle to receive said latch pin in said upstanding position of said handle, said spring biasing said pin toward entry into said last perforation, a knob on said spring for retracting said pin, said last ear having a portion adapted to keep said pin in retracted position during movement of said handle from and to supine position.

2. In a sad iron, a sole plate, a cover therefor, a pair of vertical ears on said cover, a handle having vertical handle supports pivoted to said ears to assume either horizontal supine or upstanding positions relative to said cover means, and releasable means for locking said handle relative to said cover plate in the upstanding position of the handle comprising a leaf spring secured to one of said vertical handle supports and extending downwardly therealong, a latch pin carried by the lower end of said leaf spring, one of said ears having a perforation spaced from the pivotal connection of said handle thereto to receive said latch pin, said spring biasing said pin toward entry into said perforation, and a hook like knob on said spring for retracting said latch pin by lifting on said knob.

3. A sad iron having a pair of perforated ears extending upwardly therefrom adjacent the front and the rear thereof, a handle comprising a hand grip member and a handle bow, said handle bow having its ends pivoted to said ears to assume either a supine position on the sad iron or an upright position with respect thereto, and releasable means for locking said handle in its upstanding position comprising a leaf spring carried by said handle bow adjacent its forward end, a pin carried by said leaf spring and biased by the spring toward engagement with the front ear, said front ear having a latch perforation to receive said latch pin, and a knob on said spring in the form of a downwardly opening hook adapted to be engaged by a finger of the user's hand while holding said hand grip and upon being raised thereby to swing said spring and latch pin rearwardly to retracted position with respect to the perforation of said front ear.

4. In a sad iron, a relatively flat sole plate, cover means therefor, a pair of perforated ears extending upwardly from said cover means adjacent the ends thereof, a handle comprising a hand grip member and a handle bow, said handle bow having its ends pivoted on said ears by means including said perforations to assume either a supine position on the cover means or an upright position with respect to the sad iron, and releasable means for locking said handle in its upstanding position comprising a spring carried by said handle bow adjacent its forward end, a pin carried by said spring and biased by the spring toward engagement with the front perforated ear, said front ear having a latch pin receiving perforation for said latch pin, and a knob on said spring adapted to be engaged by a finger of the user's hand while holding said hand grip and moved by such finger to move said latch pin rearwardly to retracted position with respect to said latch pin receiving perforation, said front ear having a guide portion to engage said pin and keep it in retracted position during movement of the handle to and from its supine position.

RUSSELL I. HUFFMAN.