E. M. HARRIS & M. H. O'NEIL.

Sad-Iron.

No. 165,821. Patented July 20, 1875.

Fig. 1.

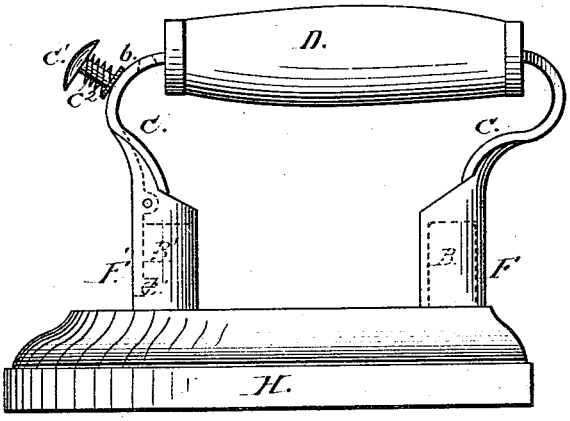


Fig. 2

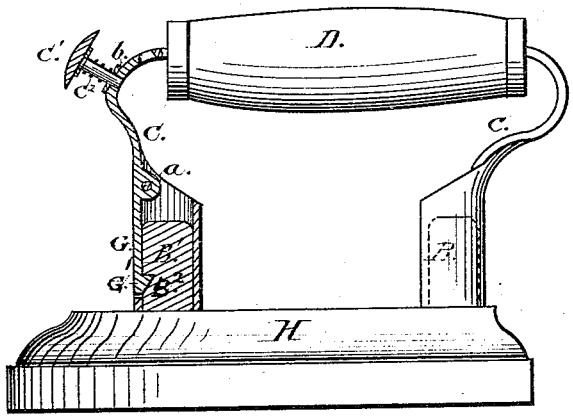
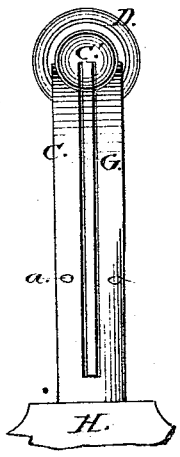


Fig. 3.



Witnesses:

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ENOCH M. HARRIS AND MICHAEL H. O'NEIL, OF RICHMOND, VIRGINIA.

IMPROVEMENT IN SAD-IRONS.

Specification forming part of Letters Patent No. **165,821**, dated July 20, 1875; application filed January 28, 1874.

To all whom it may concern:

Be it known that we, ENOCH M. HARRIS and MICHAEL H. O'NEIL, both of Richmond, in the county of Henrico and State of Virginia, have invented certain Improvements in Sad-Irons, of which the following is a specification:

Our invention relates to improvements in sad-irons having detachable handles, the nature of which will be fully explained hereafter by reference to the accompanying drawing, which forms part of this specification.

Figure 1 represents a side view, and Fig. 2 a similar view, partly in section, of a sad-iron constructed according to our invention. Fig. 3 represents an end view of the bow and handle.

In each of the views similar letters are employed to indicate corresponding parts wherever they occur.

H is the base of the sad-iron, formed in the usual manner, except that it is provided with lugs B B^1, projecting from its upper surface. These lugs are, by preference, formed cylindrical and with rounded tops. C represents the iron bow, provided with a suitable handle, D. The lower ends F F′ of the bow C are formed with cylindrical enlargements F F′, adapted to embrace the lugs B B^1, as shown by Figs. 1 and 2. Within the forward leg of the bow C a bent lever, G, is arranged. This lever is held in position by means of a pivot, *a*, passing through the same, and held in the sides of enlargement F′, and is of corresponding form externally with the form of the bow C. C^1 represents a button or knob, the stem of which is connected to the upper end of the lever G, for the purpose of depressing the said lever, as hereinafter explained. C^2 is a spiral spring, one end of which presses against the knob C^1, while its opposite end rests on a washer, *b*, the object of this spring being to bring the lever G back after being depressed. G′ is a catch formed on the end of the lever G, and is adapted to be received into a notch, B^2, formed in the forward lug B^1, as shown at Figs. 1 and 2.

The operation of our device is as follows: Supposing the handle to be attached to the body of the iron, as shown by the drawings, when it is required to detach the iron from the handle, all that is necessary is to depress the button C^1 with the thumb, thereby causing the lever G to be turned on its axis, so as to withdraw the catch G′ from the recess B^2 of the lug B^1. The lugs B B^1 will then be free to be drawn out of the enlargements F F′ by the weight of the body of the iron. The handle may then be applied to the same or a similarly-formed iron by simply pressing the enlargements F F′ down over the lugs B B^1. The catch G′, which has been brought back into position after the removal of the thumb from the button C^1, will then again engage with the recess B^2, and the iron is ready for use.

Having thus described our invention, what we claim, and desire to secure by Letters Patent, is—

The combination, with the body H of a sad-iron, constructed with lugs B B^1, the forward lug B^1 being provided with a notch, B^2, as described, of a bow or handle, C, having enlargements F F′, adapted to embrace the lugs B B^1, and a curved lever, G, pivoted within its forward leg, formed with a catch, G′, at its lower end, and operated by a button, C^1, and spring C^2, the whole being constructed and operating substantially as shown and described.

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