2 Sheets—Sheet 1.

L. M. DAVIS.

SAD-IRONS.

No. 180,557. Patented Aug. 1, 1876.

Fig. 1.

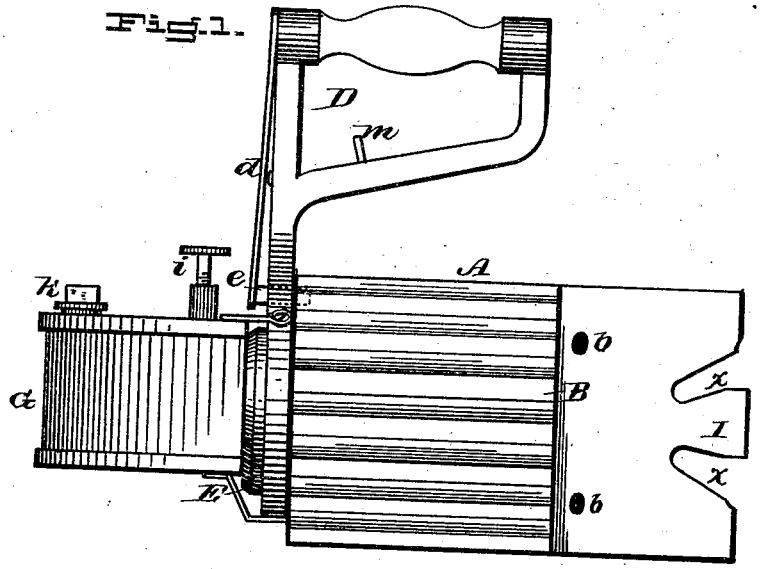
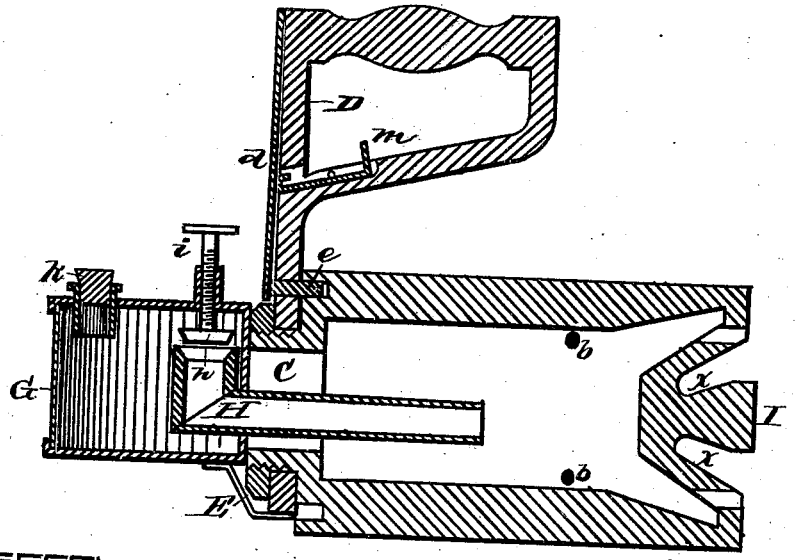


Fig 2.



WITNESSES:

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2 Sheets—Sheet 2.

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Fig. 3.

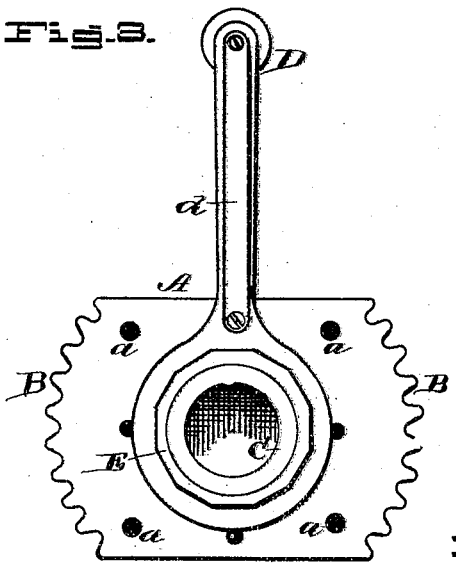


Fig. 5.

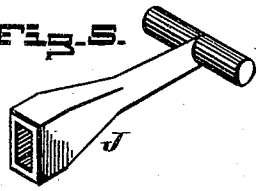
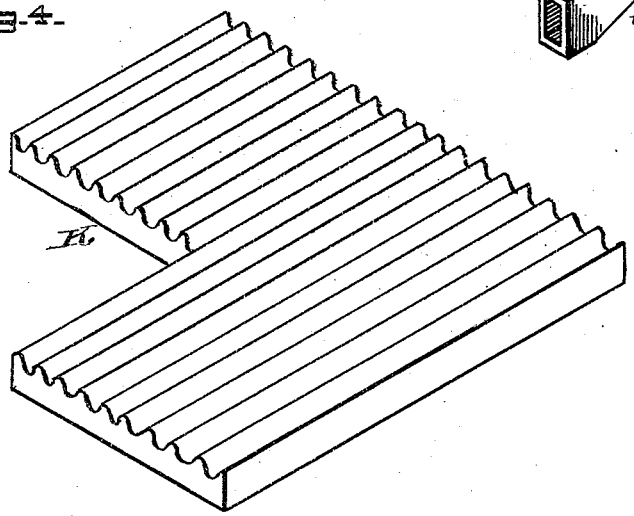


Fig. 4.



WITNESSES

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UNITED STATES PATENT OFFICE.

LUTHER M. DAVIS, OF JOPLIN, MISSOURI.

IMPROVEMENT IN SAD-IRONS.

Specification forming part of Letters Patent No. **180,557**, dated August 1, 1876; application filed July 7, 1876.

To all whom it may concern:

Be it known that I, L. M. DAVIS, of Joplin, in the county of Jasper and State of Missouri, have invented certain new and useful Improvements in Sad-Irons, of which the following is a specification:

The nature of my invention consists in the construction and arrangement of a combined sad and fluting iron, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawings, which form a part of this specification, and in which—

Figure 1 is a side elevation. Fig. 2 is a longitudinal section. Fig. 3 is an end view, with lamp removed. Figs. 4 and 5 are details.

A represents the iron proper, having two smooth faces, either one of which may be used for ironing. The iron is made of about the usual form, is hollow, and its sides B B made convex with a series of longitudinal corrugations to be used for fluting purposes.

In the rear end or heel of the iron are suitable draft-openings *a a*, and in the toe of the iron are other openings *b b* for the escape of the products of combustion. At the rear end of the iron is formed a hollow projecting collar, C, having exterior screw-threads, over which the lower end of the handle D is placed, and a nut, E, is then screwed on said collar, leaving the handle, however, free to turn thereon.

The handle D is constructed, as shown, extending over the iron, and on its rear side is attached a spring, *d*, which has at its lower end a pin, *e*, projecting through the handle into the rear end of the iron for locking the handle and iron together.

In the rear end of the iron are several holes for this pin, so that the iron may be locked to the handle in any position desired, so as to bring either one of the four sides downward.

To the lower end of the handle D, on the outer side, is attached a lamp-reservoir, G, with an L-shaped tube, H, therein, the horizontal arm of said tube extending into the iron.

In the top of the vertical arm of the tube is a valve, *h*, regulated by a set-screw, *i*, for adjusting and regulating the flow of fluid through the tube. This may be arranged to burn by capillary attraction, or otherwise, as desired. The reservoir is filled through an aperture provided with a plug or stopper, *k*, as shown.

It will readily be understood that when in use it is the upper face of the iron that is being heated while the lower one is being used, and as soon as the lower face is getting too cool the iron is revolved, which is accomplished by means of a finger-slide, *m*, in the handle, whereby the spring *d* is pressed so as to draw the pin *e* out of the hole in the iron. The iron is then easily turned, and the pin *e* springs into the corresponding hole for that side and locks the iron.

When the corrugated convex sides B of the iron are used for fluting purposes a corrugated board, K, is used, upon which the fabric to be fluted is laid. This board is made in L shape, so as to be suited for both broad and narrow ruffles.

When the handle becomes loose by the nut or washer E unscrewing, it is to be tightened by turning the iron A. For this purpose there are two notches, *x x*, cut in the toe of the iron, leaving a center projection, I, enlarged on its outer end, by taking hold of which the iron can easily be turned to screw the collar *c* up into the nut or washer E. In case the iron is hot, a wrench-key, J, is fitted on the projection I, and the iron can then easily be turned as required for fastening the handle.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination of the revolving sad-iron A with screw-collar C, the handle D, nut or washer E, spring *d*, with pin *e*, and the finger-slide *m*, substantially as and for the purposes herein set forth.

2. The combination, with a revolving sad and fluting iron, of the lamp-reservoir G, provided with an aperture and stopper, K, L-shaped tube H, provided with a valve, *h*, in the top of the vertical arm, as shown, and regulated by a set-screw, *i*, as and for the purposes hereinbefore set forth.

In testimony that I claim the foregoing as my own I affix my name in the presence of two witnesses.

LUTHER M. DAVIS.

Witnesses:
M. W. DAVIS,
JASPER BLACKWELL.