C. WOODBERRY.

Stove for Heating Irons for Tailors' and Hatters' Use.

No. 51,641. Patented Dec. 19, 1865.

Fig. 2.

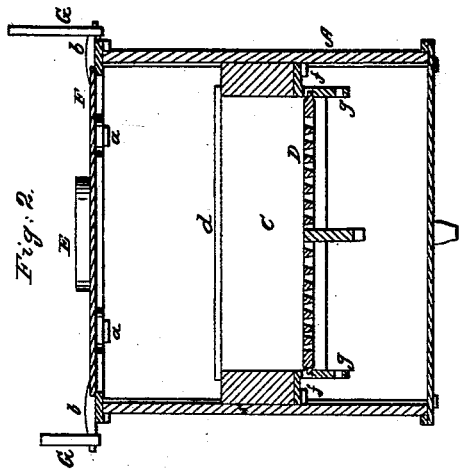


Fig. 3.

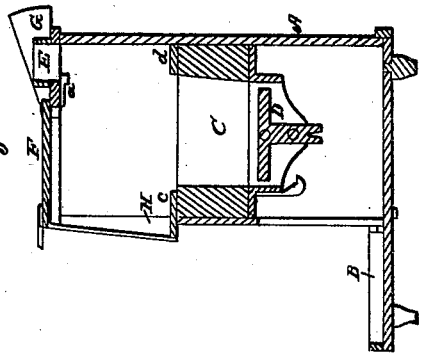
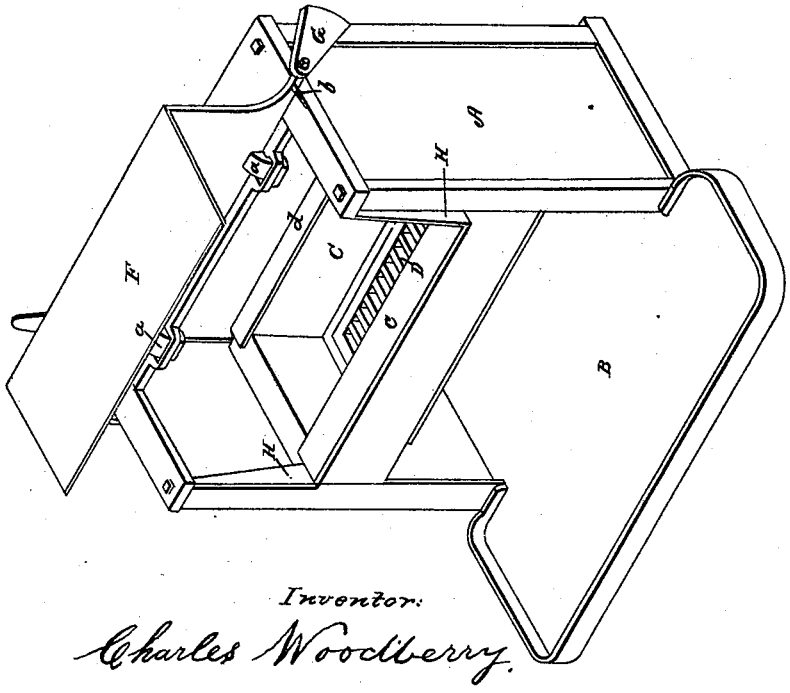


Fig. 1.



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UNITED STATES PATENT OFFICE.

CHARLES WOODBERRY, OF BOSTON, MASSACHUSETTS.

STOVE FOR HEATING IRONS FOR TAILORS' AND HATTERS' USE.

Specification forming part of Letters Patent No. **51,641**, dated December 19, 1865.

To all whom it may concern:

Be it known that I, CHARLES WOODBERRY, of Boston, in the county of Suffolk and State of Massachusetts, have invented a new and Improved Stove for Heating Irons for Tailors' and Hatters' Use, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is a perspective view of my improved stove, the cover being raised. Fig. 2 is a longitudinal vertical section through the center of the same. Fig. 3 is a transverse vertical section through the center of the same.

In that class of stoves designed for heating the ordinary irons used by tailors and hatters as heretofore constructed the cover for retaining the heat has been placed a considerable distance above the fire, so as to afford sufficient space to put in and remove the irons, which occasioned a considerable waste of heat. Doors have also been placed in front, but it was necessary to make them of considerable height to admit the hand to place the irons in their proper position and remove them when heated. The gas was also liable to escape into the room.

My invention has for its object to remove these difficulties; and it consists in providing the stove with a swinging cover or blower, the opening and closing of which is facilitated by weights attached thereto, the cover, when open, allowing the irons to be readily removed and replaced, and when closed covering the fire immediately over the irons, thereby avoiding any unnecessary waste of heat. And my invention also consists in making the grate adjustable in height, so as to increase or diminish the size of the fire-pot, as may be desired.

To enable others skilled in the art to understand and use my invention, I will proceed to describe the manner in which I have carried it out.

In the said drawings, A represents the outer casing of the stove, B the hearth, C the fire-pot, D the grate, and E the opening to the chimney.

The front and a portion of the top plate over the fire-pot is left open, and over this opening is placed the swinging cover or blower F, which is bent at right angles, and is provided with lugs or projections, *a*, which fit into slots in the top plate, and thus form hinges on which the cover F swings.

G are counterpoise weights of the form shown in Fig. 1, which are attached to projections *b* on the cover F, and are so placed as to balance and facilitate the opening and closing of the cover and retain it open when raised into the position shown in Fig. 1.

The irons to be heated are placed immediately over the fire, resting on the ledges *c d*, no plate being interposed between the irons and the fire as usual heretofore, thus causing the irons to be more rapidly heated. The cover F is then closed, as seen in Fig. 3, covering the fire immediately over the irons and preventing any unnecessary waste of heat. On raising the cover into the position seen in Fig. 1 convenient access is afforded to the irons, which can thus be readily removed and replaced.

The ledge *c* is made of considerable width, and extends out beyond the front of the stove, being furnished with side pieces, H, which enables me to reduce the width of the side plates of the stove.

The bearings *e* of the grate fit into holes *f* in the frame of the fire-pot, and beneath the holes *f* are formed holes *g*, into which the bearings of the grate may be placed when it is desired to increase the depth or size of the fire-pot; and by having a series of holes at the required intervals it will be seen that the size of the fire-pot may be varied, as desired.

In some cases, if preferred, this stove may be inclosed in brick-work in a similar manner to a cooking-range, and by placing a ventilator in the flue the heat may be drawn up from the room in warm weather.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The within-described open stove with its balanced-weighted cover F, arranged and operating substantially as described.

2. In combination with the above, regulating the height of the grate, so as to vary the size of the fire-pot, by two or more holes, *f g*, on each side to receive the bearings of the grate, substantially as set forth.

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Witnesses:

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