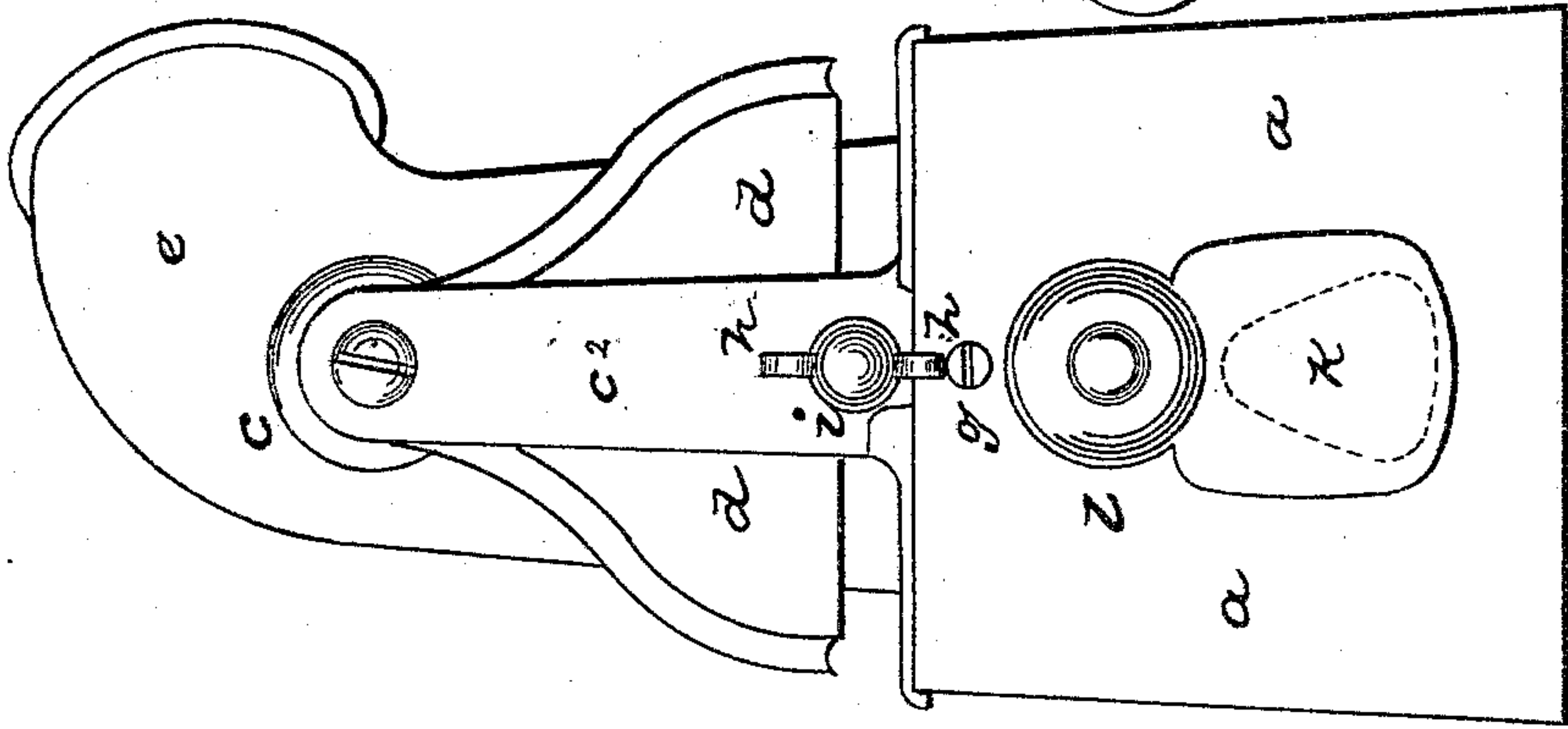
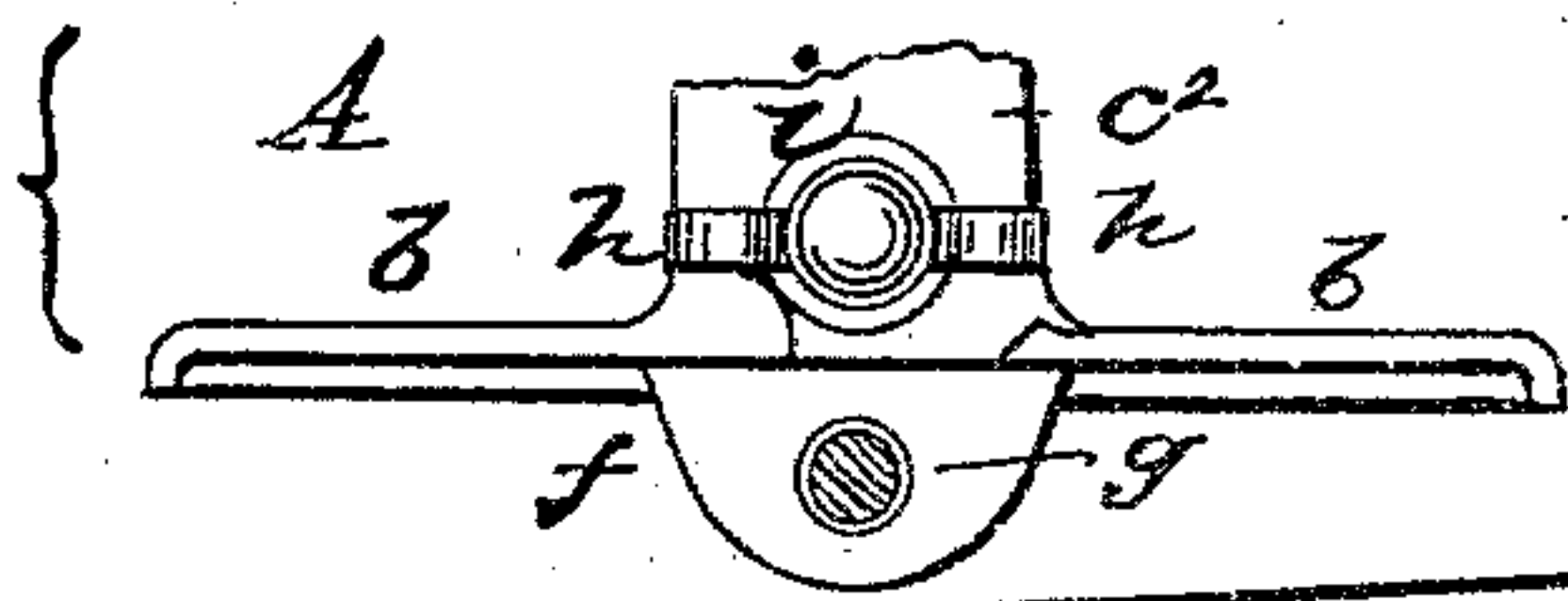
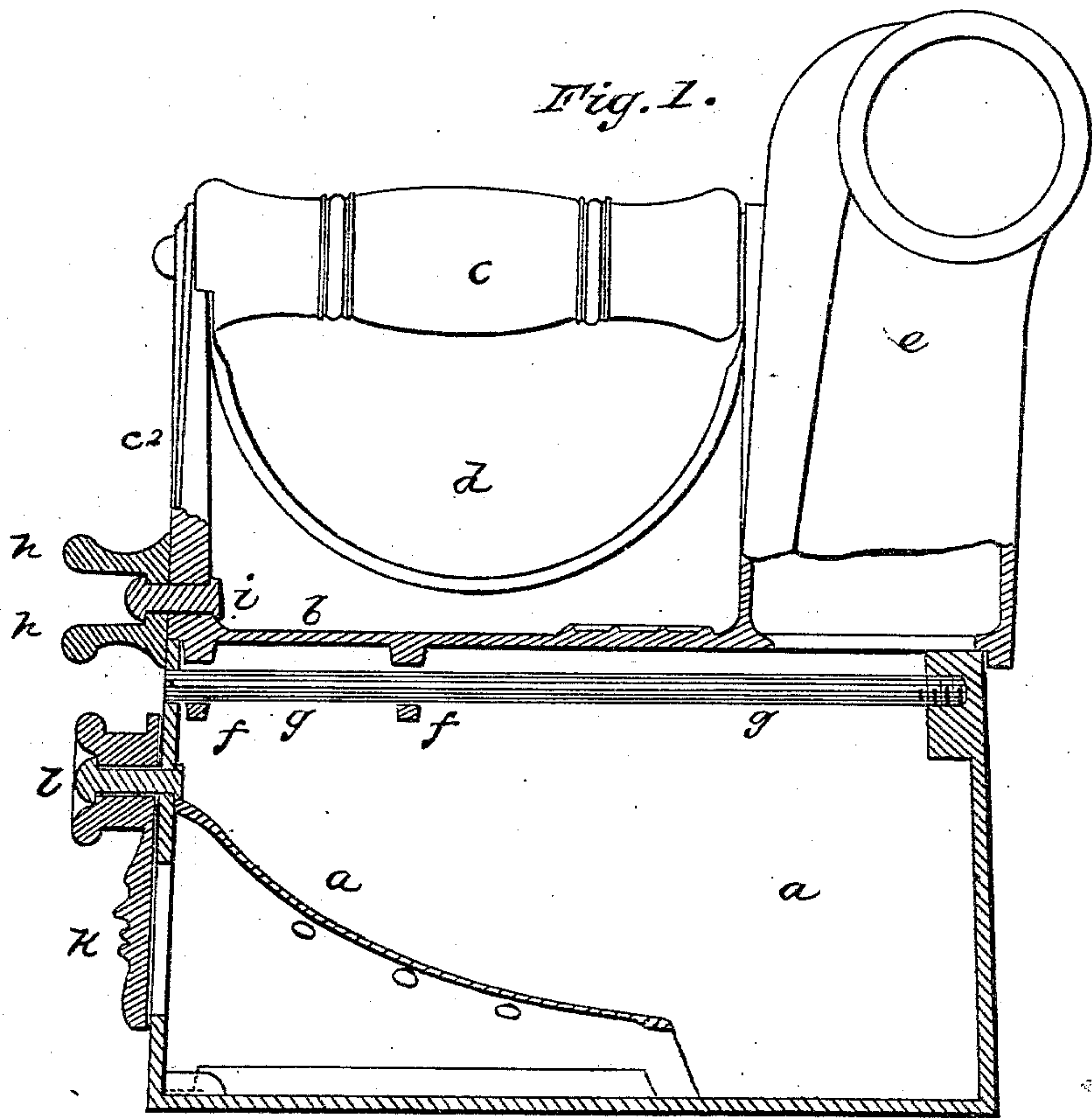


Sad-Iron Heater.

No. 70,572.

Patented Nov. 5, 1867.



Witnesses:

Richard Threlkett
Henry Threlkett.

Inventor:

George Hurdman

United States Patent Office.

GEORGE HURDMAN, OF WOLVERHAMPTON, ENGLAND, ASSIGNOR TO
CHARLES FREDERICK CLARK, OF THE SAME PLACE.

Letters Patent No. 70,572, dated November 5, 1867.

SAD-IRON HEATERS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL TO WHOM IT MAY CONCERN:

Be it known that I, GEORGE HURDMAN, of Wolverhampton, in the county of Stafford, England, pattern-maker, a subject of the Queen of Great Britain, have invented or discovered new and useful "Improvements in Sad-Irons;" and I, the said GEORGE HURDMAN, do hereby declare the nature of the said invention, and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement thereof; that is to say—

My invention consists of the improvements hereinafter described in connecting the lids or covers of charcoal-box or sad-irons to the bodies of the same, whereby the opening and closing and fastening and unfastening of the said lids or covers are effected in a simple and efficient manner, and neatness of appearance secured. In charcoal-box irons, as ordinarily constructed, the lid or cover is either made capable of being lifted entirely from the body, or turns upon a hinge or joint on the body.

My invention consists in making the lids or covers of charcoal-box irons slide upon the body for the purpose of gaining access to the interior of the iron, or for closing the open top of the iron.

In constructing a charcoal-box iron according to my invention, I fix across the middle of the body in the longer direction thereof, a rod, pin, or guide, and I make upon the under side of the lid or cover two or more eyes or brackets, the said eyes or brackets being engaged with and working upon the rod, pin, or guide fixed across the body. By this means the lid or cover is securely connected to the body, and is capable of sliding upon the rod, pin, or guide, and edges of the top of the body, so as to open or close the top of the said body. I fasten the sliding lid or cover in its place by means of a button or turn working on a pin at the end of the lid or cover. When the lid or cover has been made to close the body of the iron, the button described is turned and made to bear upon the end of the iron, and thus secure the lid or cover in its place. As the button or turn described is not disconnected from the lid or cover when the latter is fastened or unfastened, it is secured against being lost.

The lid or cover of the iron is provided with the ordinary chimney, handle, and guard. The damper has a knob or handle made upon it, which serves both to raise the said damper and to hold the body during the sliding of the lid or cover.

Having explained the nature of my invention, I will proceed to describe, with reference to the accompanying drawing, the manner in which the same is to be performed.

Figure 1 represents, partly in longitudinal section and partly in side elevation, a charcoal-box iron to which my improvements are applied, and

Figure 2 is an end elevation of the same.

a is the body of the box-iron having the ordinary form, and *b* is the sliding lid or cover of the same, constructed according to my invention. The said lid or cover *b* carries the handle *c*, guard *d*, and chimney *e*, and is connected to the body *a* by means of the eyes or brackets *ff*, on the under side of the said lid or cover, engaging with and sliding upon a rod, pin, or guide *g*, fixed in the manner best seen in fig. 1, across the middle of the body *a*, in the longer direction thereof. The shape of the eyes or brackets *ff* which work upon the rod or guide *g*, is best seen in the separate view of the lid or cover shown at A, fig. 1. The edges of the lid or cover *b* are provided with flanges, as represented, which bear against the sides of the body, and prevent the escape of the gases from the iron. On the end upright *e*² of the handle *c* is a button or turn, *h*, working freely on the pin or centre *i* for fastening the lid or cover to or unfastening it from the body *a*. *k* is the damper, by which the admission of air to the body *a* for combustion is regulated. The said damper is provided with a strong knob or handle, *l*. When it is wished to open the top of the iron for the introduction of charcoal therein, or for other purpose, the button or turn *h* is partly rotated so as to remove its lower arm from the end of the body *a*, as seen in the separate view marked A, fig. 1. The knob or handle *l* of the damper is then held with the left hand, and the lid or cover *b* is moved from heel to point of the body with the right hand, the eyes or brackets *ff* of the lid or cover sliding upon the fixed rod or guide *g*. After the introduction of the charcoal the lid or cover is returned to its place so as to close the top of the iron, and the button or turn *h* is again made to bear

upon the end of the iron in the manner represented in the drawing. The lid or cover is thereby securely fixed in its place.

Having now described the nature of my invention, and the manner in which the same is to be performed, I wish it to be understood that I do not limit myself to the precise details herein described and illustrated, as the same may be varied without departing from the nature of my invention; but

I claim as my invention the improvements in charcoal-box or sad-irons hereinbefore described, and illustrated in the accompanying drawing; that is to say, the combination of the rod, pin, or guide *g*, and eyes or brackets *ff* with the body and lid or cover of charcoal-box irons for the purpose of permitting of the sliding of the lid or cover upon the body, substantially as described and illustrated.

Also, the combination with the said parts *fg* of the turn or button *h*, for fastening the lid or cover, and the knob or handle *l*, for holding the iron during the sliding of the lid or cover, substantially as described and illustrated.

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