

E. SMITH.
Stove-Feet.

No. 154,527.

Patented Aug. 25, 1874.

Fig. 1.

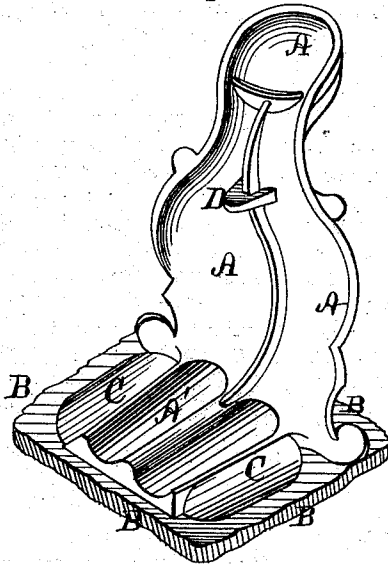


Fig. 2.

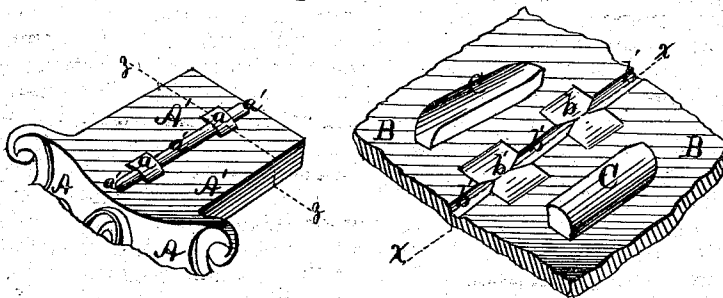


Fig. 3.

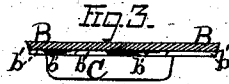


Fig. 4.



WITNESSES=

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INVENTOR.

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UNITED STATES PATENT OFFICE.

ELIHU SMITH, OF ALBANY, NEW YORK.

IMPROVEMENT IN STOVE-FEET.

Specification forming part of Letters Patent No. 154,527, dated August 25, 1874; application filed July 11, 1874.

To all whom it may concern:

Be it known that I, ELIHU SMITH, of Albany, in the county of Albany and in the State of New York, have invented certain new and useful Improvements in Stove-Feet; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a perspective view of the lower side of my improved leg and the portion of the base-plate with which it is connected. Fig. 2 is a like view of the engaging surfaces of said leg and plate. Fig. 3 is a cross-section upon line *xx* of Fig. 2, and Fig. 4 is a like view upon line *zz* of same figure.

Letters of like name and kind refer to like parts in each of the figures.

The object of this invention is to present a secure and effective means for fastening a foot to a stove, whereby it shall be easily attached and held firmly and constantly in place at all times and under all circumstances when the stove is in use, and yet capable of ready displacement when it is necessary or desirable to have it removed; and to this end it consists in casting upon the lower or under face of the stove-plate dovetailed flanges, into and between which the sides of the foot-top slide and fit; and in providing in said plate, between said flanges, certain indentations, to and into which certain corresponding projections on the upper face of the foot-top shall be fitted when the said foot is placed in position between said flanges, as aforesaid, all as will be more fully and particularly specified and described hereinafter.

In the accompanying drawings, A represents the stove-foot; B, a portion of the bottom plate of the stove. Upon the under side of this are cast or affixed the dovetail flanges C. These flanges incline a little toward each other from front to rear, so as to be adapted to the slightly wedge-shaped form of the top or horizontal portion A' of the foot A. The lateral edges of this top are beveled a little from the top to the bottom, so as to be more exactly adapted to these dovetailed flanges, as aforesaid. The inner faces of these flanges being beveled, the lower edges incline inward at the bottom, and are thus adapted to fit

tightly to and upon the beveled edges of the horizontal portion A' of the stove-foot. At the inner ends these said flanges flare a very little for the purpose of allowing a slight play to the foot when it is set home in place and in ordinary use. Upon the upper face of the horizontal part or arm A' of the said foot are cast projections or knobs *a a*, one near the central front and the other in a corresponding position in the rear, while extending centrally from front to rear upon said upper face, and through said projections, is a ridge or rib, *a'*. When the foot is fitted to said flanges these knobs and this ridge or rib are adapted to coincide with and rest in the corresponding indentations *b b* and *b'* between the flanges in the under face of the stove-plate; but, while this union is not so easily perfected that the parts can be readily adapted to the other, it is intended that there shall be so much friction between the projections or ridges on the upper face of the arm of the foot and the stove-plate as to require some force to send the foot home into position; but when once the two parts are so adapted to each other and fitted together the union becomes exceedingly firm and permanent; so much so, indeed, that the liability of the foot dropping or being knocked out of place under any circumstances of ordinary use is entirely obviated. Every motion of the stove or of its foot only tends to set the leg more securely in place and bind it faster in its seat; but when, for any cause, it is desired to remove the foot from the stove-plate, it is only necessary to give one or two quick and nervous blows with a hammer or mallet upon the inner edge of the arm A' of the foot to loosen its hold and enable it to be readily displaced.

Upon the inner face of the leg is a central strengthening-rib, which may or may not be ordinarily used, as seems necessary; also, upon said inner face of the foot, and at a little distance from its lower end, is a projection, D. Under some circumstances this will be found a convenient support for the edge of the hot closet, sub-oven, under flue, or any detachable and supplementary under portion of the stove to rest upon.

This device will supply a great and serious want in presenting a foot that is easily put in

position, and practically can be set as fast to the stove-plate as an integral part of itself. Thus the danger of accident from the unintentional displacement of the foot is obviated, while, at the same time, the foot can, at any time when necessary, be easily removed.

I am aware that heretofore stove-feet have sometimes been made with holes through the arm, adapted to receive a key, spring, or other locking device; and also that feet have been provided with grooves or similar indentations to hold springs, catches, or the like, or that the under side of the stove-plate has been so made for the same purpose. In all these instances, however, a locking device of some kind is invariably needed to unite the several parts. In my invention the leg and the stove-plate, in their peculiar construction, as above fully explained, will, when placed together, as

herein set forth, become closely locked without the intervention of any additional means or part.

Having thus fully set forth the nature and merits of my invention, what I claim as new is—

The stove-foot A, having on the upper face of its arm A' projections *a a* and rib *a'*, combined with the stove-plate B, provided with flanges C, flaring at their inner ends, and with the indentations *b b b'*, in the manner and for the purposes set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 2d day of July, 1874.

ELIHU SMITH.

Witnesses:

WILLIAM FITCH,
JOHN R. YOUNG.