J. GIBSON, Jr.

Stove Leg.

No. 98,243. Patented Dec. 28, 1869.

Fig. 1

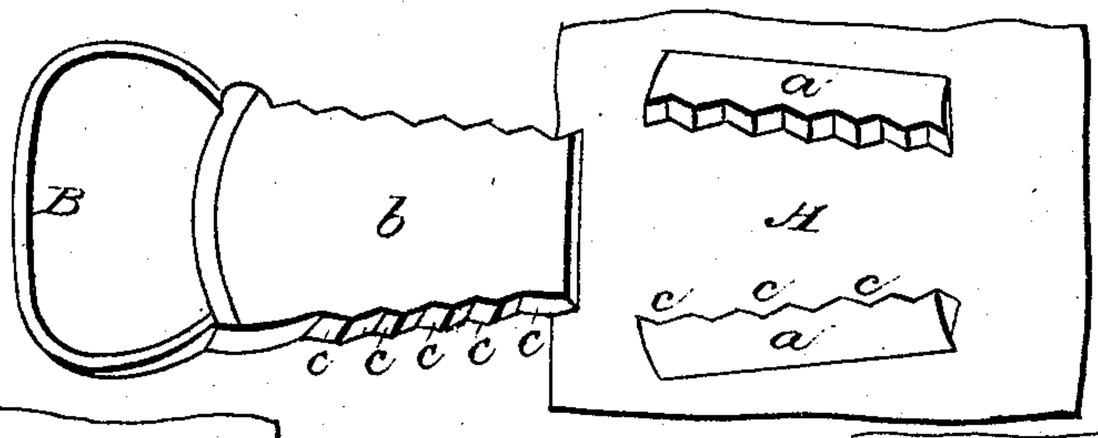
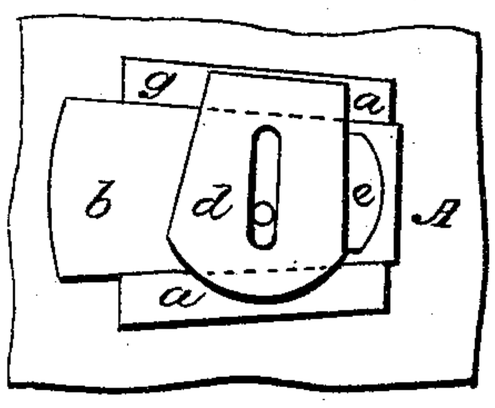


Fig. 2

Fig. 9



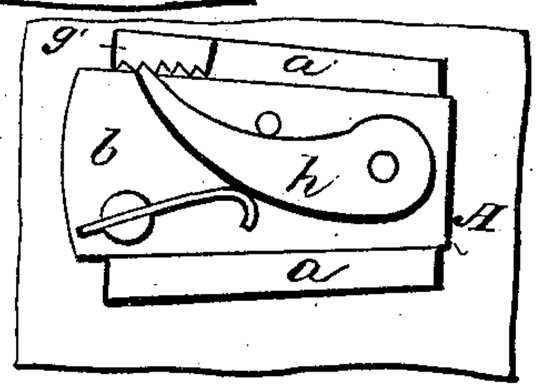


Fig. 3

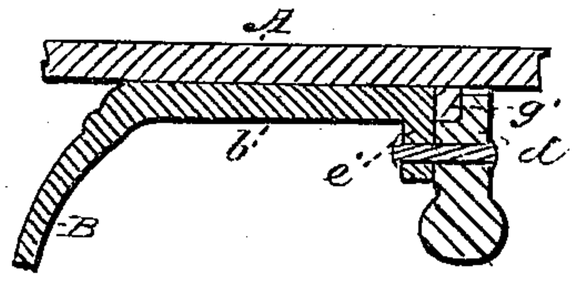


Fig. 4

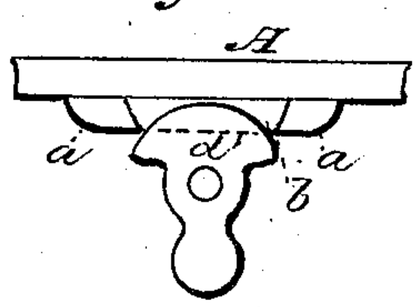


Fig. 10

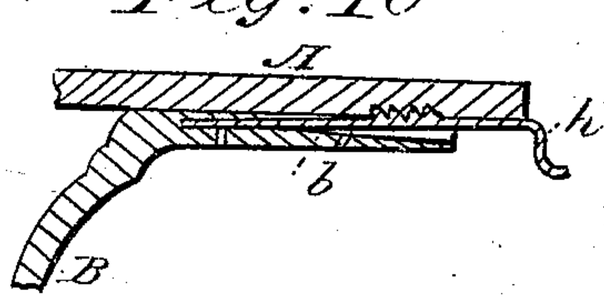


Fig. 5

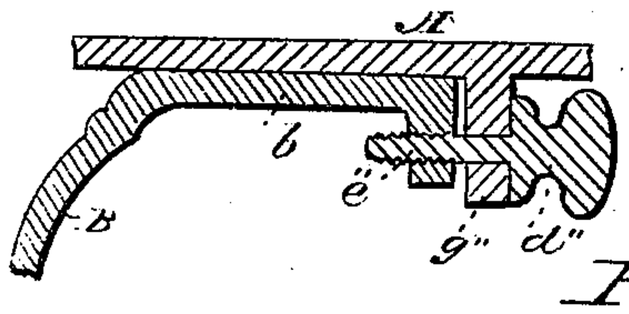


Fig. 6

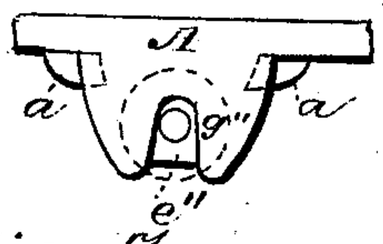


Fig. 11

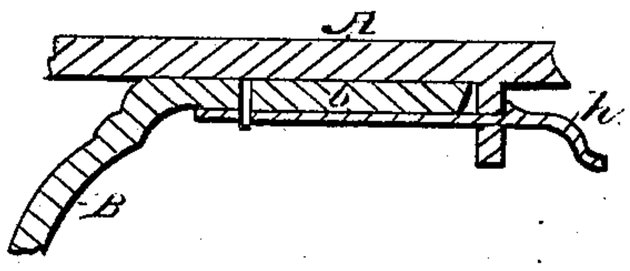


Fig. 7

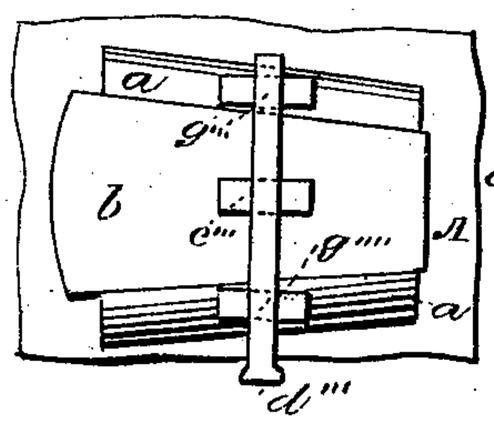
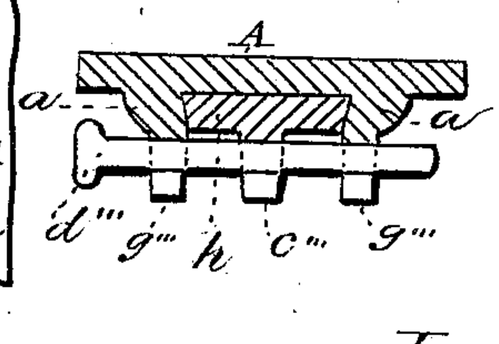


Fig. 8



Witnesses

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JOHN GIBSON, JR., OF ALBANY, NEW YORK.

Letters Patent No. 98,243, *dated December* 28, 1869; *antedated December* 11, 1869.

IMPROVEMENT IN STOVE-LEGS.

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

To all whom it may concern:

Be it known that I, JOHN GIBSON, Jr., of the city and county of Albany, State of New York, have invented certain new Improvements in the Shanks of Legs for Stoves, Heaters, &c., and in their dovetails, and manner of securing the said legs in the said dovetails; and I 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 represents a perspective view of the dovetails and shank of a stove-leg as improved.

Figure 2 is a vertical view, from beneath, of one modification of the manner of securing or locking the stove-leg into the dovetails.

Figure 3 is a longitudinal section of another modification of the same.

Figure 4 is a cross-section of the same.

Figure 5 is a longitudinal section of another modification.

Figure 6 is a cross-section of the same.

Figure 7 is a vertical view, from beneath, of another modification.

Figure 8 is a cross-section of the same.

Figure 9 is a vertical view, from beneath, of another modification, securing the same results.

Figures 10 and 11 are other views of longitudinal sections, showing other modifications of this invention.

One part of my invention consists in forming the edges of the dovetails and the edges of the shanks of the stove-legs with corrugations, or other substantially similar or irregular surfaces, which could be more readily and quickly dressed with a file, so as to cause the said shank to fit the said dovetail, as intended, thus materially lessening the labor which now attends the fitting of these parts of the stove.

When the shank of the leg has been fitted to its dovetails, the leg is secured in its place by any of the modifications of the locking-arrangements, which I use as a part of my invention.

These locking-devices may be either in the form of a slide-bolt or bar, working across and over the shank of the leg, and impinging against projections made on the dovetail and on the said shank, or may be in the form of buttons attached to the shank, and impinging on projections made on the base of the stove, (or the reverse,) or by screw-bolts drawing on the small end of the shank from projections placed back of the dovetails, or by springs, dogs, or catches attached to the shanks, and working into notches made either in the raised sides of the dovetails or on the base of the stove, or by springs, dogs, or catches placed and working in the reverse; any of which (which are only a few of the many modifications of my invention) may be used.

To enable others skilled in the art to make and use my invention, I will proceed to describe it in reference to the drawings, and the letters of reference marked thereon, the same letters indicating similar parts.

In the drawings—

A represents a section of a base of a stove or heater.

B represents a section of a stove-leg.

a is the dovetail.

b is the shank of the stove-leg.

To lessen the labor now generally required to fit the shank *b* of the leg B perfectly between the dovetails *a a*, I make the surface of the edges of the dovetails and shank with corrugations *c c*, or with any other irregular surfaces, which would need but little filing to reduce the prominent portions of the said edges so as to make the shank *b* fit perfectly within the dovetails *a a*.

It is not necessary to make both edges of the shank and both edges of the dovetails corrugated, or otherwise irregular, as, when one edge of the shank and one edge of the dovetail are thus corrugated, or otherwise made irregular, it will, in most cases, prove sufficient.

I now secure or lock the leg B to the base A, after the shank *b* has been placed within the dovetails *a a*, by any of the several modifications of my invention, one of which is the sliding piece *d*, fig. 2, which impinges against a projection, *e*, on the rear end of the shank *b*, and against a raised projection, *g*, made on one of the dovetails *a a*, as shown in fig. 2, and crowds and holds firmly the shank *b*, between the dovetails *a a*, in such a manner as to prevent the shank from being drawn out of its place; or another modification may be used, similar to that shown in figs. 3 and 4, which consists of a button, *d'*, pivoted to the rear end of shank *b*, and working vertically against a projection, *g'*, made on the base A; or, again, another modification may be used, somewhat in the manner as shown in figs. 5 and 6, which consists of a thumb-bolt or screw, *d''*, working through a projection, *g''*, made on the base A, and into a projection, *e''*, made on the rear end of the shank *b*, which will draw the said shank of the leg B in between the dovetails *a a*; or another modification may be used, consisting of pierced projections *g''' g'''*, figs. 7 and 8, made on the dovetails *a a*, and a pierced projection, *e'''*, made on the shank *b*, through which is passed a pin, key, or bar, *d'''*, which will prevent the said shank from being drawn out of its place.

The order of arrangement of the binding-pieces, in nearly all the devices shown, may be placed and made to act in the reverse; that is to say, they may have their permanent attachment to the base or dovetail instead of to the shank, and work on or in projections made on the shank, instead of projections on the dovetails or base. Or, instead of securing the said leg B

to the base A by means of a sliding bar, button, screw, or pin, or key, or any similar devices, a dog, *h*, may be used, as shown in fig. 9, in which device the said dog or catch is pivoted to the shank *b*, and works in notches made in a raised portion of one of the dovetails *a*.

The said dog or catch may be solid, and kept in place by a spring, or the dog may be a spring of itself; and in the case where a spring-dog or catch is used, I do not confine myself to the form or location of the said dog, catch, or spring, or the manner or place they may be pivoted or fastened to, or whether they work on a pivot, as in fig. 9, or are made rigid, as in figs. 10 and 11; neither do I confine myself to any particular mode of operation in the said dog, catch, or spring *h*, whether they produce the result by pushing against notches, as in fig. 9, or hold by notches made in the base, as in fig. 10, or by a projection, as in fig. 11; neither do I confine myself to attaching the said dog, catch, or spring *h* to the shank *b*, to operate against or with notches made in the dovetails or base, as the order may be reversed, by attaching the said dog, catch, or spring to the base A or dovetails *a a*, and causing them to work against or on notches or projections made on the shank *b*.

Having described my invention, I do not confine myself to the particular form or direction of the corrugations made on the edges of the shank *b* or dovetails *a a*; neither do I confine myself to corrugations alone, as any irregular or indented surface, having uniform prominences on its face-lines, will lessen the amount of filing and fitting required to properly fit the said shank to the said dovetails; neither do I bind myself to providing the edges of both the dovetails, or both edges of the shank, with corrugations, or equivalent irregularities of surface, as one or more edges of either the dovetails or shank, thus provided, may answer the purpose; neither do I confine myself to the particular form, or position, or places of attachment of the sliding bars, buttons, screw-bolts, pins, or keys, or the dogs, catches, or springs which may be used for holding the said shank *b* between the said dovetails *a a*, so long as the said devices hold the shank into its place by pushing or drawing against projections made or placed on either the shank of the stove-leg, or on the dovetails, or on the base of the stove.

I hereby disclaim the device for attaching stove-legs, patented by George W. Burling, August 4, 1868.

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

1. Furnishing one or more edges of either the shank *b* or dovetails *a a* with corrugations, or any other irregular surface-edges, having a uniform line of prominences, substantially as and for the purpose set forth and described.

2. Securing or locking the leg B to the base A of a stove or heater, by pushing or drawing the shank *b* within the dovetails *a a*, by means of sliding bars, screw-bolts, buttons, pins or keys, dogs or spring-catches, or their equivalents, substantially as set forth and described.

JOHN GIBSON, JR.

Witnesses:
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E. D. CRARY.