

P. H. FELLOWS.
Adjustable Stove-Back.

No. 222,183.

Patented Dec. 2, 1879.

Fig. 1.

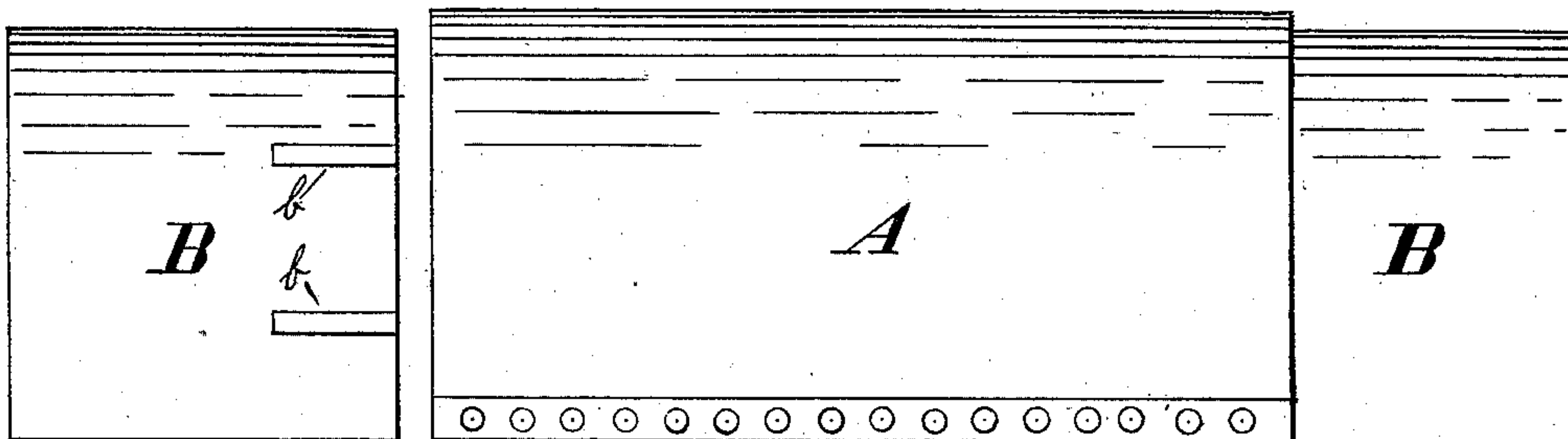


Fig. 2.

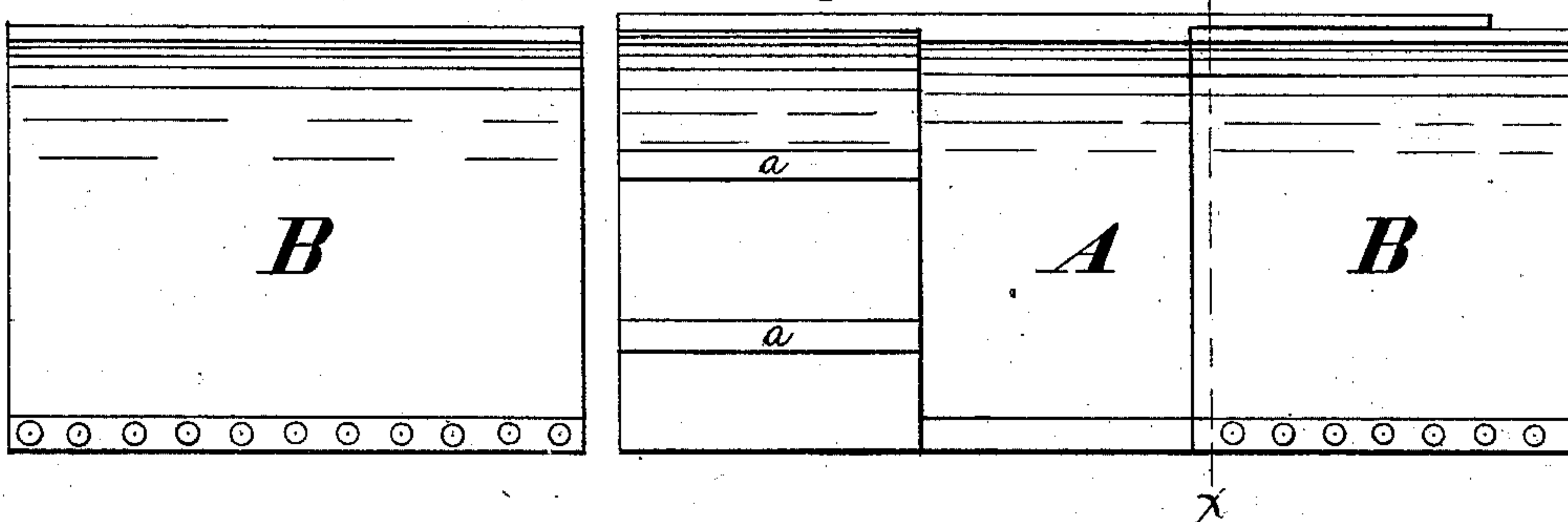


Fig. 3.

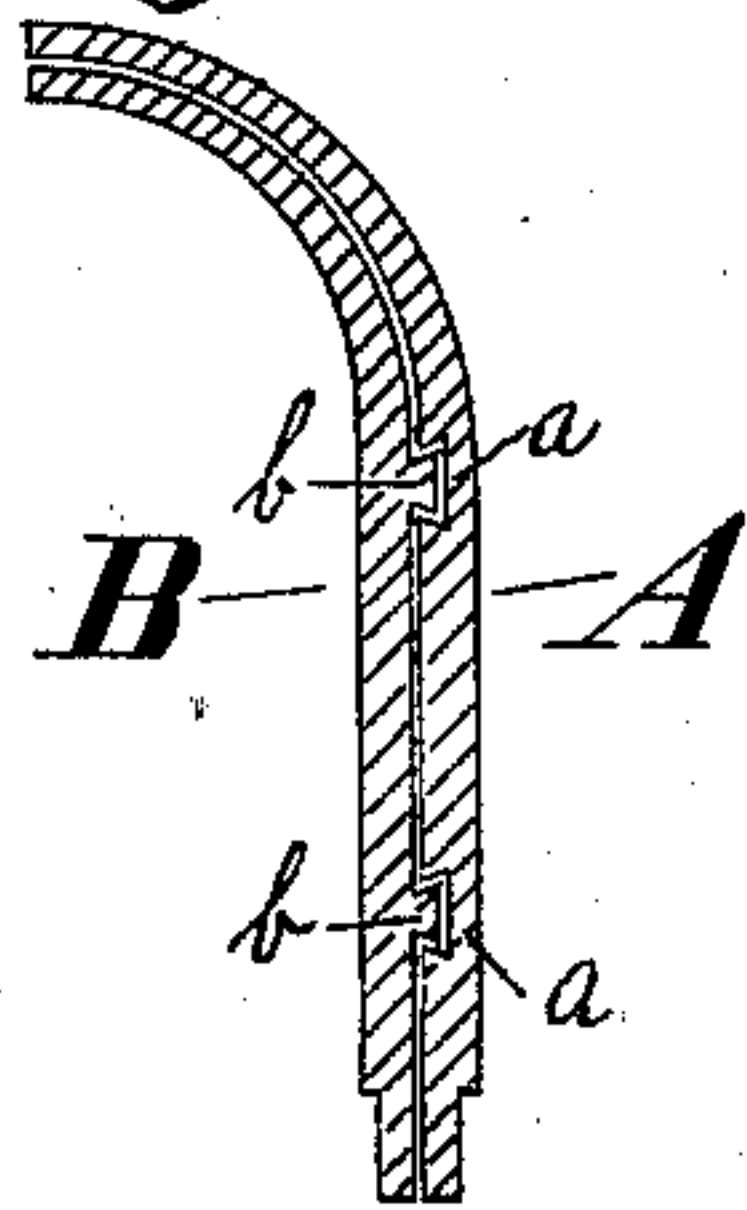
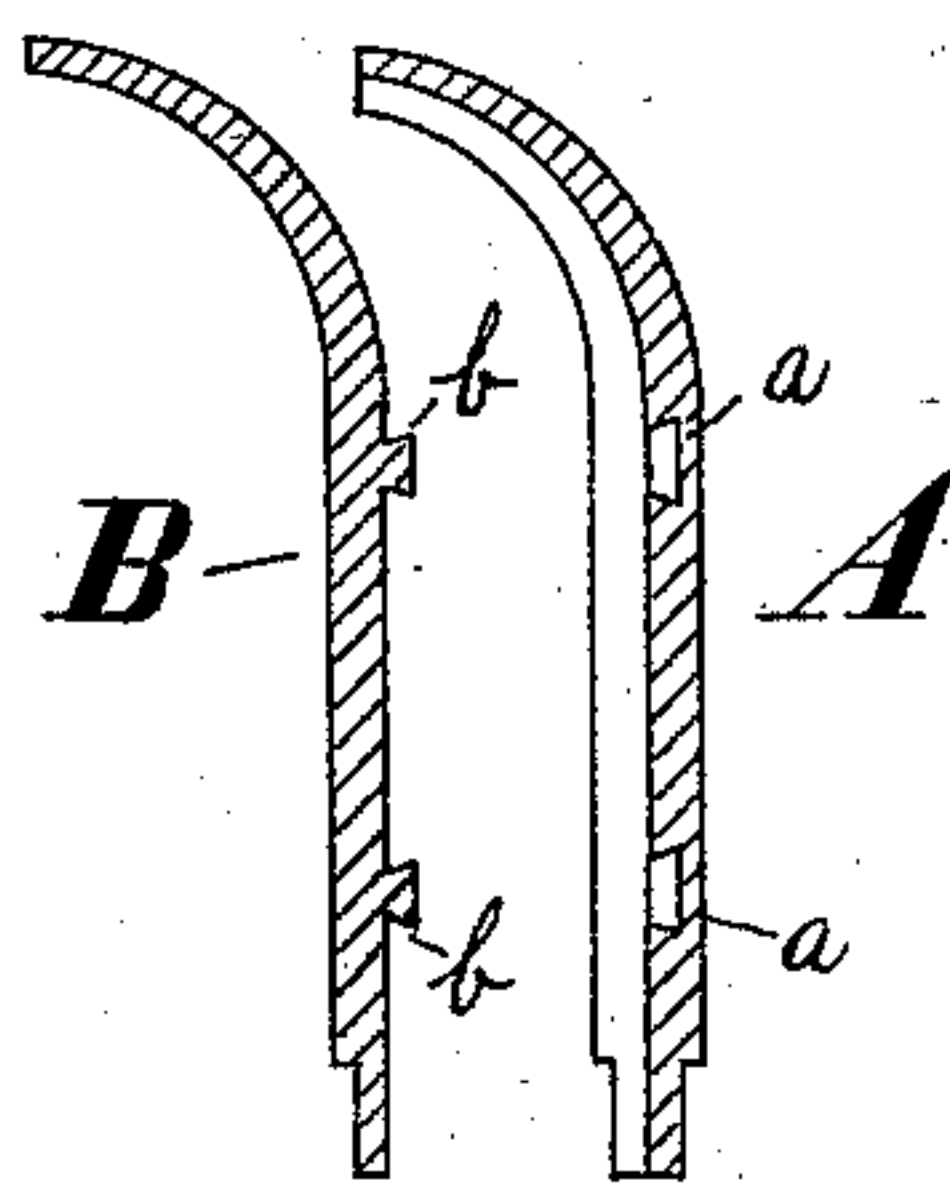


Fig. 4.



WITNESSES,

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IMPROVEMENT IN ADJUSTABLE STOVE-BACKS.

Specification forming part of Letters Patent No. **222,183**, dated December 2, 1879; application filed September 9, 1878.

To all whom it may concern:

Be it known that I, PRICE H. FELLOWS, of the city of Kokomo, county of Howard, and State of Indiana, have invented certain new and useful Improvements in Adjustable Stove-Backs, of which the following is a specification, reference being had to the accompanying drawings, which are made a part hereof, and on which similar letters of reference indicate similar parts.

Figure 1 is a front view of my improved stove-back. Fig. 2 is a rear view thereof. In each of these two views one of the end pieces, B, is shown apart from the central piece, A. Fig. 3 is a transverse vertical section on the dotted line *xx*, showing the two parts A and B connected together by the dovetail ribs *bb* and the corresponding grooves *aa*, as when in use. Fig. 4 is a view similar to that shown in Fig. 3, but with the parts A and B slightly apart from each other, and giving an end view of the enlargement of the part A.

In said drawings, the portion marked A is the main part of the stove-back, and is constructed short enough to enter the smallest stoves usually made, in which this pattern of back is used. B B are removable ends, by which the length of the back is increased so that it shall fit larger stoves.

The part A has grooves *aa* formed to fit the dovetail ribs *bb* on the part B. The ribs *bb* enter the grooves *aa* and slide along them until the required adjustment is had. This forms an exceedingly simple and secure way of connecting the several parts of a stove-back without injuring their utility by holes or slots extending entirely through the metal, as the two dovetailed ribs and grooves together form all the fastening necessary, which one alone will not do.

The connecting dovetails may, of course, be reversed as to the parts upon which they are located; but I prefer the position shown, as it is better protected from the action of the flames.

The bottom edge of the part A is reduced in thickness upon one side and the corresponding edges of the parts B B upon the other side, so that the aggregate thickness of the lower edges of both parts shall be only about that of the full thickness of one of them.

This back can thus be inserted in place of the worn-out ordinary back, and its lower edge will enter the same groove without its being changed.

The thickness of the part A is increased in the center to about equal that of both the parts elsewhere. This additional metal, being situated where the fire is hottest, makes the back much more durable, as it will thus withstand the action of the flame much longer and at but comparatively little expense. In this shape it is about as serviceable as one having the extra thickness throughout its entire length.

The lower edges of all the parts have one or more rows of hollows or depressions by which the strength of the metal is there lessened, and pieces are thereby more easily broken off should it become necessary to reduce the width of the back.

By the use of my invention the backs of stoves already in use that have been burned out may be replaced with but little expense, and but little trouble in securing a perfect fit, the capacity of adjustment being such that a single pattern of back will fit nearly all sizes of stoves made.

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

1. The combination of two or more plates, constructed substantially as described, one or more of which shall each have two or more dovetailed ribs, and the other or others corresponding dovetailed grooves, sliding endwise into each other, and forming an adjustable stove-back, substantially as shown, and for the uses and purposes specified.

2. The combination of the plate A, having its central portion of increased thickness, and provided with dovetailed grooves *a*, with the plates B B, having dovetailed ribs *b*, substantially as herein shown and specified.

In witness whereof I have hereunto set my hand and seal at Indianapolis, Indiana, this 27th day of August, A. D. 1878.

PRICE H. FELLOWS. [L. S.]

In presence of—

C. BRADFORD,
PRESTON HARVY.