

J. BEESLEY.

Stove Grate.

No. 61,386.

Patented Jan. 22, 1867.

Fig. 1

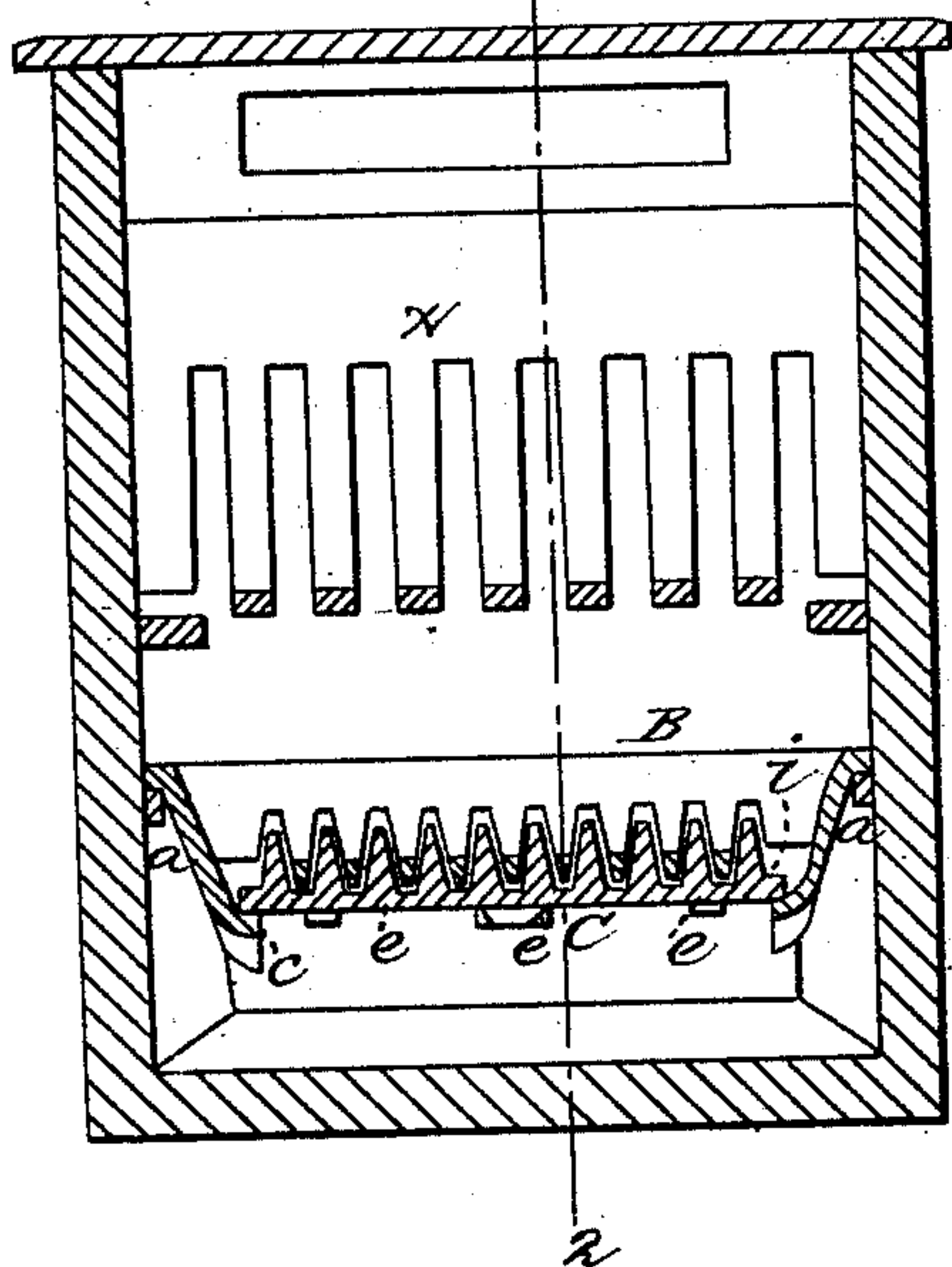


Fig. 2

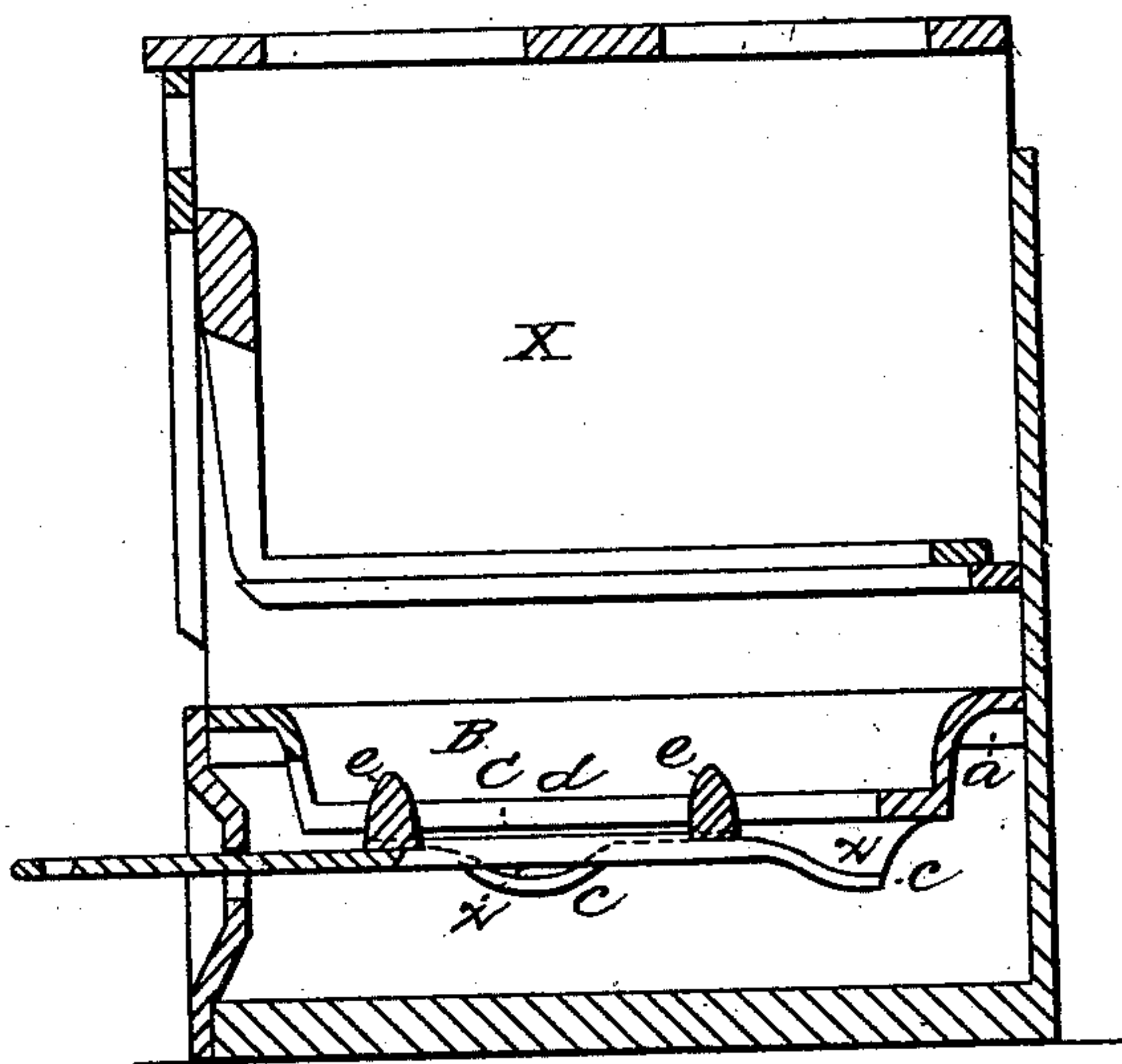


Fig. 3

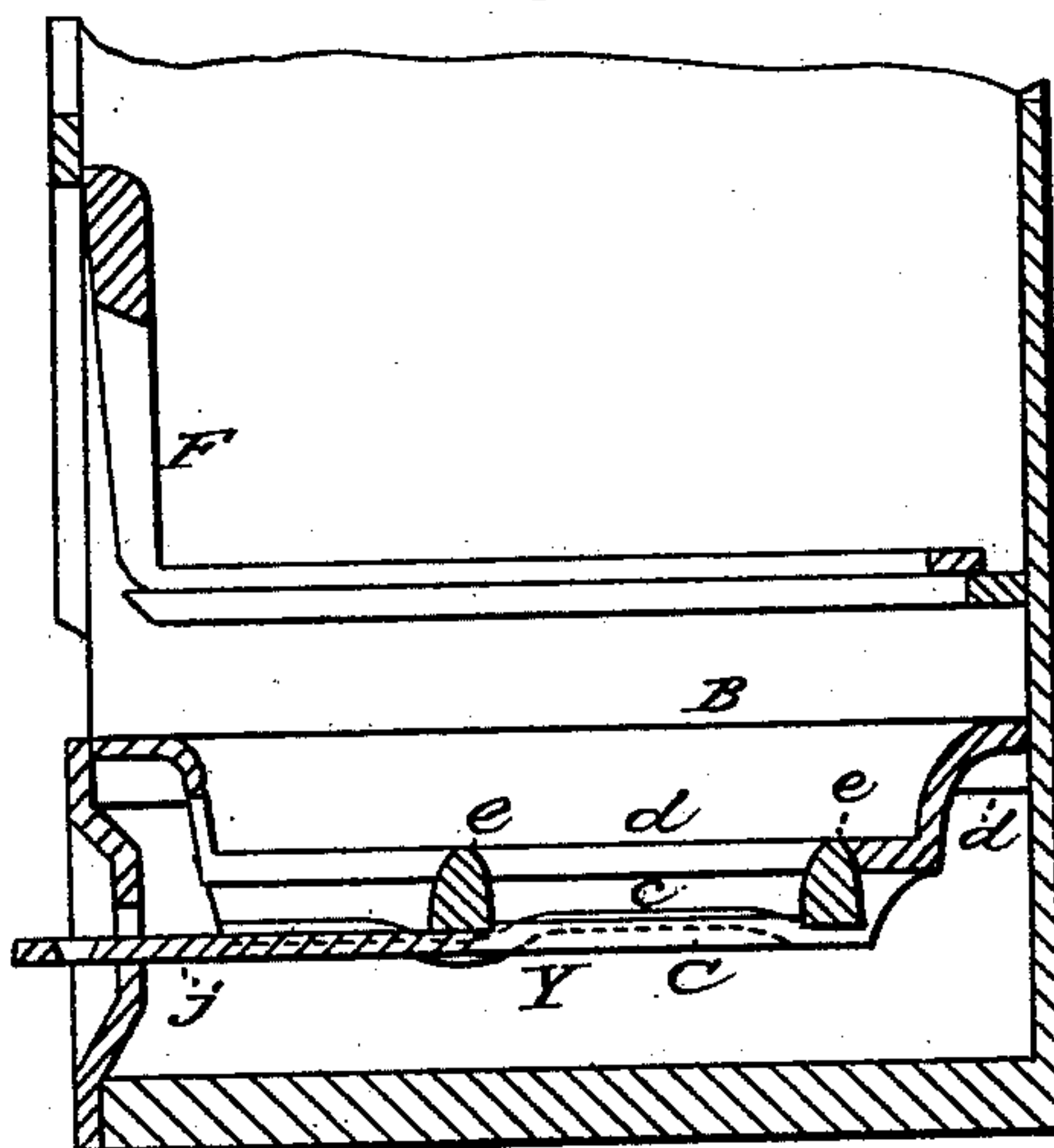
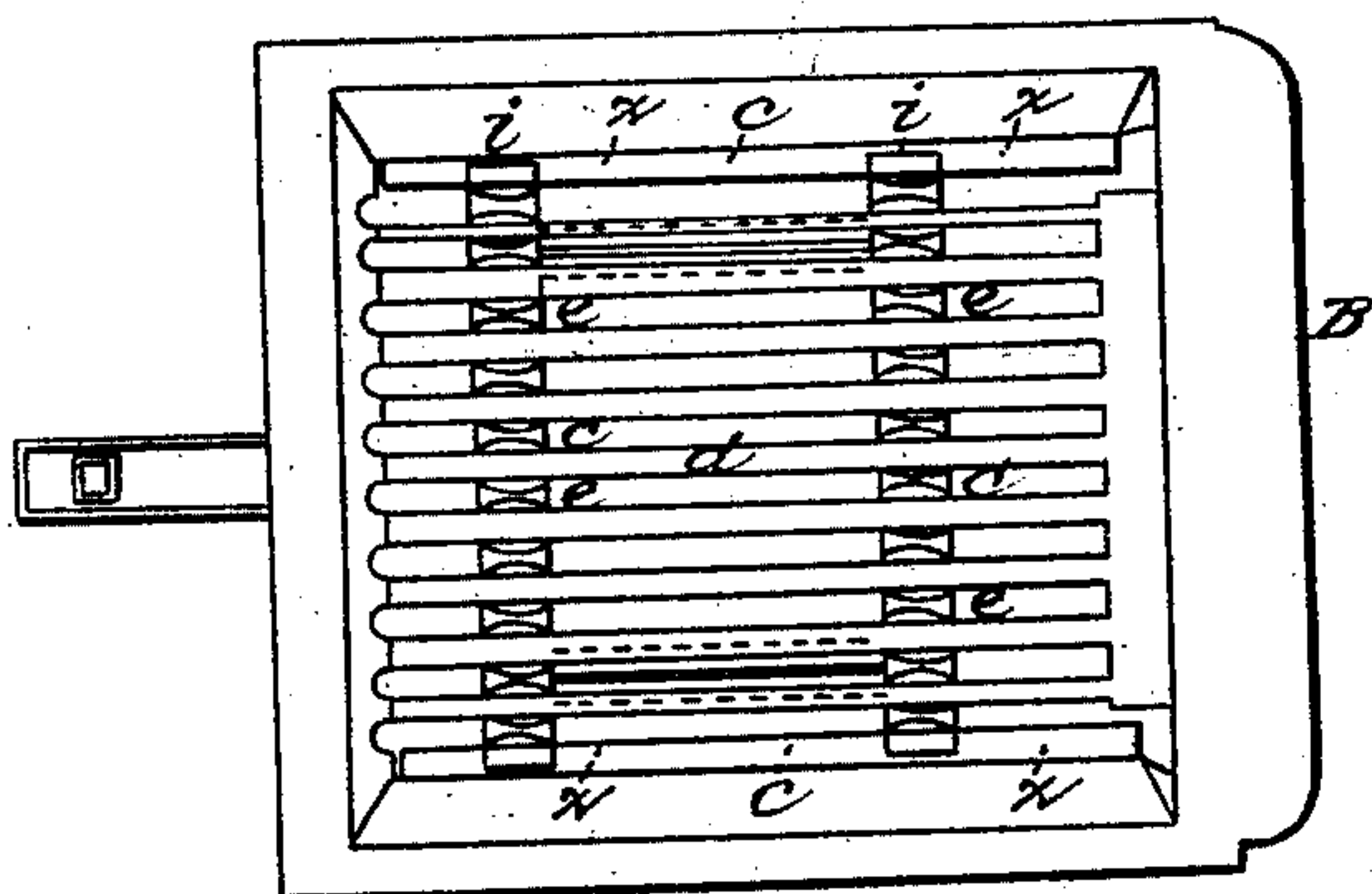


Fig. 4



Witnesses:  
 Wm. Albert Stull.  
 John Parker

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 By H. Howson atty

# United States Patent Office.

JACOB BEESLEY, OF PHILADELPHIA, PENNSYLVANIA.

*Letters Patent No. 61,386, dated January 22, 1867.*

## ASH-SIFTING DEVICE FOR GRATES.

*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, JACOB BEESLEY, of Philadelphia, Pennsylvania, have invented an Improved Ash-Sifting Device for Stoves, &c.; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawing, and to the letters of reference marked thereon.

My invention consists of a sifting device constructed and adapted to a stove or heater, substantially as described hereafter, so that the ashes which are discharged from the fire-grate may be thoroughly sifted without removing them from the stove.

In order to enable others skilled in the art to make and use my invention, I will now proceed to describe its construction and operation, reference being had to the accompanying drawing, which forms a part of this specification, and in which—

Figure 1 is a transverse sectional elevation of the fire-place of a stove with my improvement.

Figures 2 and 3, sections on the line 1-2, fig. 1, showing the parts in different positions; and

Figure 4, a plan view of the sifter detached from the grate.

At the opposite sides of the fire-place, X, of a stove furnace or range are two ribs, *a a*, on which bear flanges at the sides of a detachable ash-box, B, the bottom of the latter consisting of a grate, *d*. The opposite sides of the box B extend below the grate *d*, and have at their lower edges flanges, *c c*, in each of which are two depressions, *x x*, for a purpose described hereafter. On the flanges *c c* bear lugs, *i i*, at the opposite sides of an oblong frame, C, and on the front and back cross-pieces of the latter are projections, *e e*, which extend upward and between the bars of the grate *d*, as shown in the drawing, there being one projection to each space between the bars of the grate. From the frame C projects an arm, *j*, through an opening in a plate, E, in front of the ash-pit Y, and in the fire-place above the ash-box B is the usual fire-grate, F. The ashes, cinders, and particles of unburnt coal fall from the grate F into the box B, where the ashes are separated from the cinders by imparting a rapid reciprocating motion to the frame C, the projections *e e* as they pass through the contents of the ash-box thoroughly agitating the same, so that they fall through the grate *d* into the ash-pit below, while the unburnt or partially burnt coals available as fuel remain in the box. When the ashes have been thoroughly sifted, the frame C is moved back until its lugs, *i i*, restore the depressions *x x* in the flanges *c c*, when the frame will have descended to such a position that the ends of the projections *e* will be below the upper surface of the grate *d* and out of the way of a shovel or pan with which the contents of the box may be removed. When the ash-pit is to be cleaned the box B may be removed. In some instances, however, a stationary grate may be substituted for the grated box B, the frame in this case sliding on ribs or projections at the sides of the fire-place. If desired the flanges *c c* may be straight, the frame C being withdrawn when the ashes are to be removed. If the front doors of the fire-place be closed when the agitation of the contents of the ash-box takes place, the fine ashes cannot escape into the room in which the stove may be situated.

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

1. A grate *d* for receiving the ashes and cinders, in combination with the sliding-frame C and its projections *e e*, the whole being constructed and operating beneath the fire-grate of a stove, heater, or furnace, substantially as and for the purpose herein set forth.

2. The ribs *c c*, with their recesses *x x*; in combination with a grate *d* and with the sliding-frame C and its lugs *e e*, the whole being arranged substantially as described.

3. The combination of the detachable box B, grate *d*, and sliding frame C, the whole being constructed and operating substantially as specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JACOB BEESLEY.

Witnesses:

CHARLES E. FOSTER,

W. J. R. DELANEY.