

W. W. JACKSON.
 ASH TRAP FOR GRATE FIRES.
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1,004,268.

Patented Sept. 26, 1911.

Fig. 1.

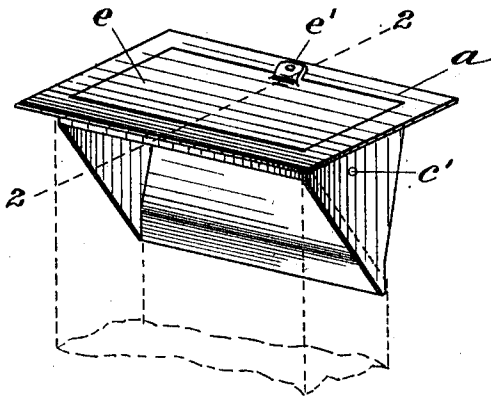


Fig. 2.

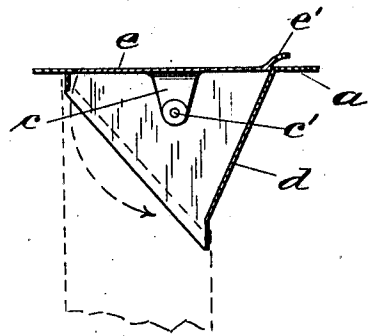


Fig. 3.

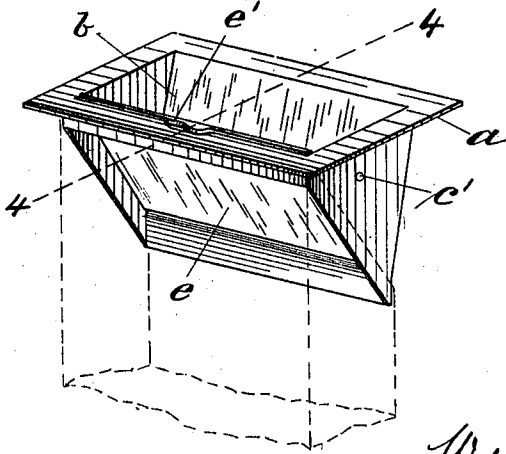
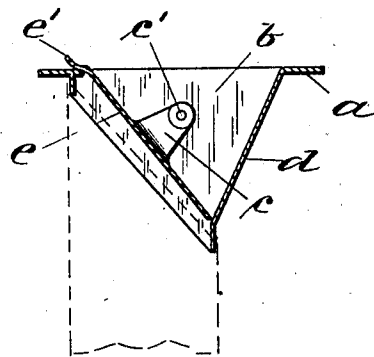


Fig. 4.



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UNITED STATES PATENT OFFICE.

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ASH-TRAP FOR GRATE-FIRES.

1,004,268.

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To all whom it may concern:

Be it known that I, WILLIAM W. JACKSON, a citizen of the United States, and a resident of New York city, borough of Brooklyn, county of Kings, and State of New York, have invented certain new and useful Improvements in Ash-Traps for Grate-Fires, of which the following is a full, clear, and exact specification, reference being had to the accompanying drawings, wherein—

Figure 1 is a perspective view of an ash-trap constructed according to my invention, showing the movable plate on a level with the frame; Fig. 2 is a sectional view on line 2—2 indicated in Fig. 1; Fig. 3 is a similar view to that of Fig. 1, but showing the movable plate shifted to open the ash-receptacle, and simultaneously closing the ash-flue; Fig. 4 is a sectional view on line 4—4 indicated in Fig. 3.

My invention relates to grates and fire places in dwellings and consists of the improved ash-trap, shown in the drawings and hereinafter more fully described and claimed, the device being designed for use as the bottom plate of a fire place and for connecting the ash-flue therewith.

The ash-trap, constructed according to my invention, consists of a frame *a*, having a central opening *b*, a chute *d*, contiguous thereto, and of a plate *e*, mounted on arms *c*, pivoted in the chute, the pivots *c'* being set so that the plate *e* will move in an arc, indicated by the arrow in Fig. 2, and will, in one position, that shown in Figs. 1 and 2, fill the opening in the frame, the whole forming then a bottom plate for the fire place, and, when swung into its other position, that shown in Figs. 3 and 4, close the lower opening of the chute *d* and form with the sides of the chute, a hopper, or receptacle, into which the ashes, from the grate or fire-place may be dropped or swept. Then by swinging the plate *e* to its original position, shown in Figs. 1 and 2, the lower

end of the chute *d* is again opened, and the ashes, dropped or swept into the receptacle, slide into the ash-flue below. In both of these positions, the plate *e* prevents the blowing of the ashes into the room, where the grate is located, by a back draft from the ash-flue. It will be noted, that simultaneously with the opening of the lower end of chute *d*, the opening in the frame *a* is closed by returning the plate *e* to its position shown in Figs. 1 and 2, and consequently, any back draft from the ash-flue, which would raise the ashes and blow them into the room, is thereby effectively prevented.

For a more convenient operation of the device, the plate *e* is provided with means for manipulating it, preferably a perforated lug *e'* as shown in the drawings. The perforation in the lug facilitates the insertion of a poker or similar implement, for swinging the plate *e* as required. Instead of this, other means may be provided for swinging the plate *e*, to effect the closing of either end of the chute, as explained. Neither arrangement, however, is an essential part of my invention.

I claim as my invention:

The combination with a chute, provided with a frame contiguous to one end thereof and having a central opening, of arms pivotally mounted in the chute, a plate mounted on said arms and fitted substantially as a whole to the central opening of the frame so as to form with the frame a bottom plate for a fireplace, the arms being so pivoted that the plate may be swung bodily over the lower end of the chute to close the same, thus transforming it into a receptacle, all substantially as shown and described.

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