R. B. CLEMENT.

ASH SCOOP.

APPLICATION FILED APR. 14, 1908.

904,756. Patented Nov. 24, 1908.

2 SHEETS—SHEET 1.

Fig. 1.

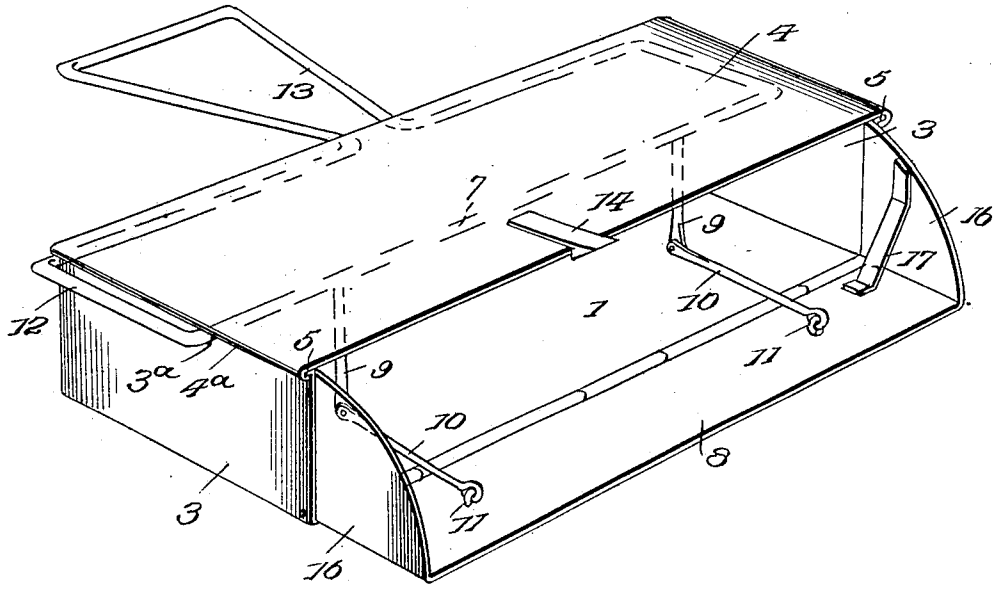
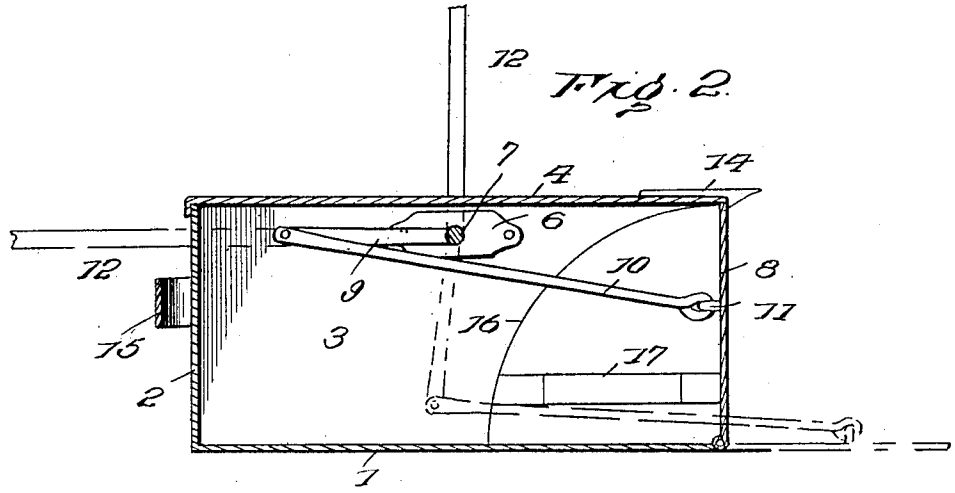


Fig. 2.



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Witnesses

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2 SHEETS—SHEET 2.

Fig. 3.

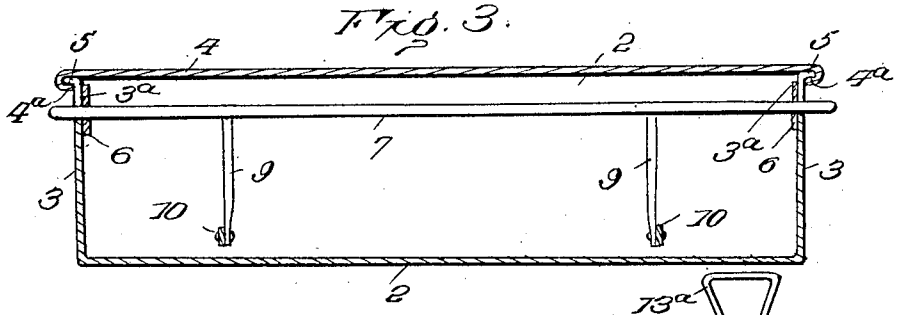


Fig. 6.

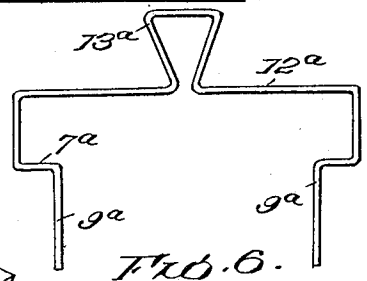


Fig. 4.

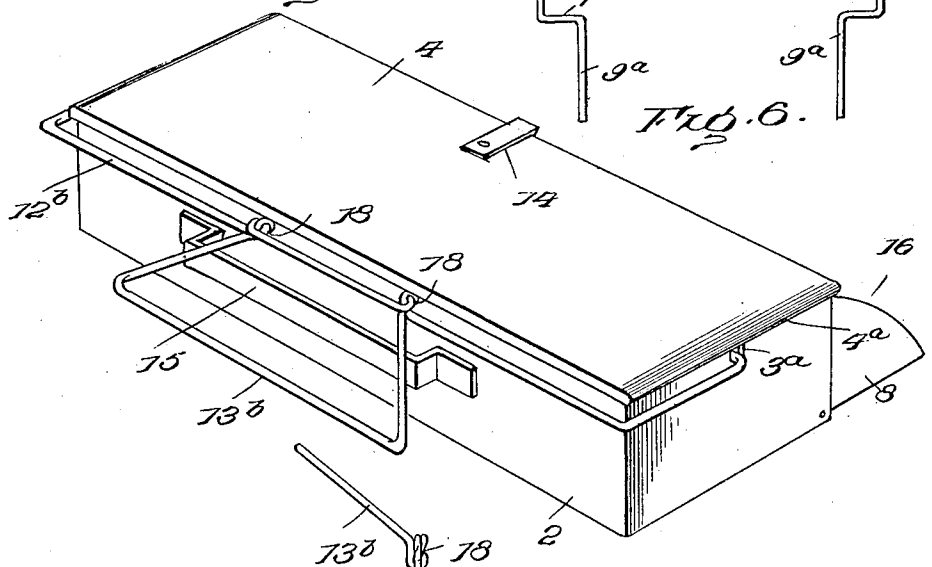
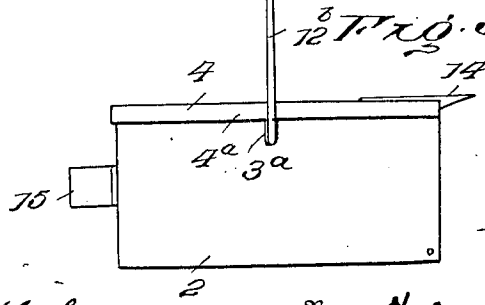


Fig. 5.



Witnesses

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UNITED STATES PATENT OFFICE.

ROBERT B. CLEMENT, OF CRAYNE, KENTUCKY, ASSIGNOR OF ONE-FOURTH TO THOMAS H. COCHRAN AND ONE-FOURTH TO WILLIAM D. CROWELL, OF MARION, KENTUCKY.

ASH-SCOOP.

No. 904,756. Specification of Letters Patent. Patented Nov. 24, 1908.

Application filed April 14, 1908. Serial No. 427,075.

To all whom it may concern:

Be it known that I, ROBERT B. CLEMENT, citizen of the United States, residing at Crayne, in the county of Crittenden and State of Kentucky, have invented certain new and useful Improvements in Ash-Scoops, of which the following is a specification.

The present invention relates to an improved device for removing ashes from a stove or grate without occasioning the large amount of dust which is usually incident to such operation.

The object of the invention is the provision of a novel scoop for this purpose, which is simple and inexpensive in its construction and will operate in an effective manner to receive the ashes, and remove them from the stove without producing an appreciable amount of dust.

With this and other objects in view that will more fully appear as the description proceeds, the invention consists in certain constructions and arrangements of the parts that I shall hereinafter fully describe, and then point out the novel features thereof, in the appended claims.

For a full understanding of the invention and the merits thereof, and to acquire a knowledge of the details of construction, reference is to be had to the following description and accompanying drawings, in which:

Figure 1 is a perspective view of an ash scoop constructed in accordance with the invention, the lid being swung into an open position; Fig. 2 is a transverse sectional view through the scoop, the lid being shown in a closed position in full lines, and in an open position in dotted lines; Fig. 3 is a longitudinal sectional view through the scoop; Fig. 4 is a perspective view of a scoop embodying a modification; Fig. 5 is an end view of the same; and, Fig. 6 is a plan view of a modified construction of the crank shaft and swinging frame for actuating the same.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings, by the same reference characters.

The ash removing scoop embodying the present invention, comprises a bottom 1, back 2 and ends 3, which are rigidly connected to each other. The top 4 is removably applied to the scoop, and as shown on the drawings, the upper edges of the ends 3 are deflected outwardly to form the lips 5, and the edges of the top are returned at 4^a to receive the said lips. With this construction, it will be obvious that the top 4 can be readily slipped into position or removed therefrom, from the back of the scoop. The ends 3 of the scoop have the upper portions thereof notched at 3^a, and plates 6, which are rigidly secured to the inner faces of the ends, extend across these notches and form bearings for a shaft 7. The open front of the scoop is designed to be closed by a swinging lid 8 which is hinged to the bottom 1 and is swung into alinement therewith, when the scoop is thrust into the ash pit of the stove for the removal of the ashes therefrom. Previous to the removal of the scoop from the ash pit however, it is contemplated to swing the lid 8 upwardly into a closed position so that the ashes will be prevented from scattering and producing the usual dust. For this purpose, the shaft 7 is provided with the downwardly extending crank arms 9 having the link members 10 loosely connected thereto, the forward ends of the link members being looped through eyes 11 upon the lid 8. This shaft 7 is either integral with or rigidly connected to a swinging U-shaped frame 12 upon the exterior of the scoop, the said frame being provided with a handle 13. When the handle 13 and frame 12 are swung rearwardly, the shaft 7 is turned, and the crank arms 9 moved forwardly, so as to open the lid 8. The scoop may then be thrust into the ash pit of the stove or grate, and the ashes caused to enter the interior thereof. As the scoop is withdrawn from the ash pit, the handle 13 is swung upwardly, and it will be obvious that the swinging lid 8 will thereby be moved into a closed position before the scoop has been entirely removed from the ash pit. A spring catch 14 upon the top 4, then engages the swinging lid 8, to lock the same in a closed position. When it is desired to dump the ashes from the scoop, it is merely necessary to release the catch 14 and swing the handle 13 rearwardly. It will be observed that the back 2 of the scoop is provided with a hand loop 15 for convenience in handling and manipulating the scoop, and in the construction shown upon the drawings, the ends of the swinging lid 8

have the segmental wings 16 secured thereto, the said wings being reinforced by the braces 17, and fitting against the ends 3 when the lid is closed.

A slight modification is shown in Fig. 6, in which the shaft 7^a, crank arms 9^a, swinging frame 12^a and handle 13^a are formed from a single piece of wire, the intermediate portion of the shaft being omitted.

A still further modification is shown in Fig. 4, in which the handle 13^b is loosely connected to the swinging frame 12^b, and can be swung downwardly at an angle thereto, but cannot be swung upwardly above the plane of the frame. The cross bar of the frame 12^b is looped to provide the inwardly extending eyes 18, to which the handle 13^b is loosely connected, the cross bar of the frame being thereby enabled to act as a stop to limit the upward swinging movement of the handle. Attention is directed to the fact that with this construction, the scoop can be taken apart or knocked down, so as to occupy a comparatively small amount of space when packed for shipment.

Having thus described the invention, what I claim is:

1. The combination of a scoop formed with an open side, a hinged closure for the open side, a swinging frame mounted upon the scoop, and means actuated by the swinging frame for opening and closing the hinged closure.

2. The combination of a scoop formed with an open side, a crank shaft mounted within the scoop, a closure for the open side of the scoop, and an operative connection between the crank shaft and the closure.

3. The combination with a scoop formed with an open side, a closure for the open side, a crank shaft journaled within the scoop and having an operative connection with the closure, and a handle for controlling the crank shaft.

4. The combination of a scoop formed with an open side, a closure for the open side, a crank shaft journaled within the scoop and having an operative connection with the closure, a swinging frame rigid with the crank shaft, and a handle for the swinging frame.

5. The combination with a scoop formed with an open side and a removable top, a swinging closure for the open side, a crank shaft journaled within the scoop and having an operative connection with the swinging closure, a swinging frame rigid with the crank shaft, and a handle for the swinging frame.

6. The combination of a scoop formed with an open side, a closure for the open side, a swinging frame mounted upon the scoop, means actuated by the swinging frame for controlling the closure, and a handle loosely connected to the swinging frame.

In testimony whereof I affix my signature in presence of two witnesses.

ROBERT B. CLEMENT. [L. S.]

Witnesses:
T. ATCHISON FRAZER,
H. K. WOODS.