

C. F. Meyer,
Ash Sieve.
N^o 63,170. Patented Mar. 26, 1867.

Fig. 1.

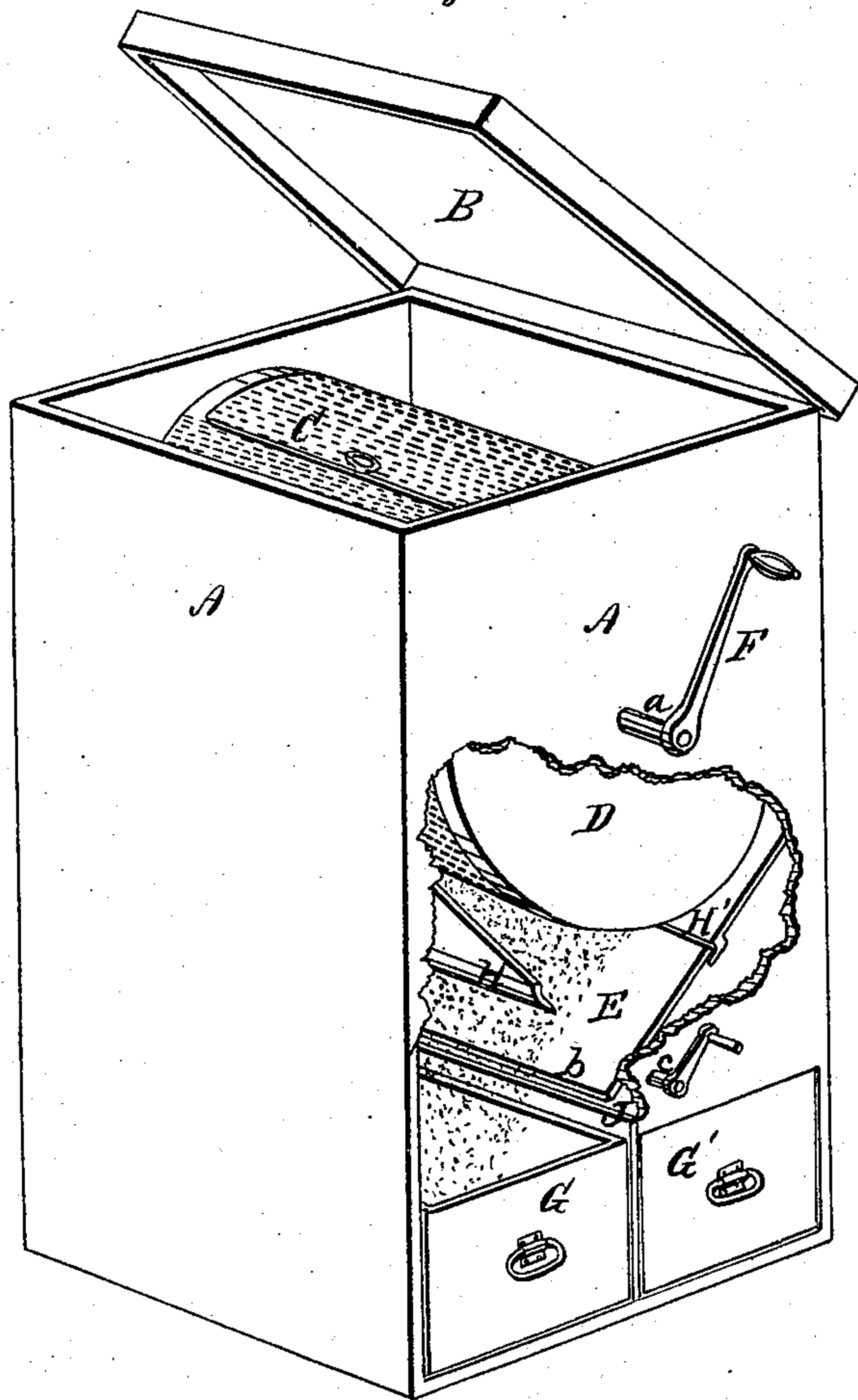
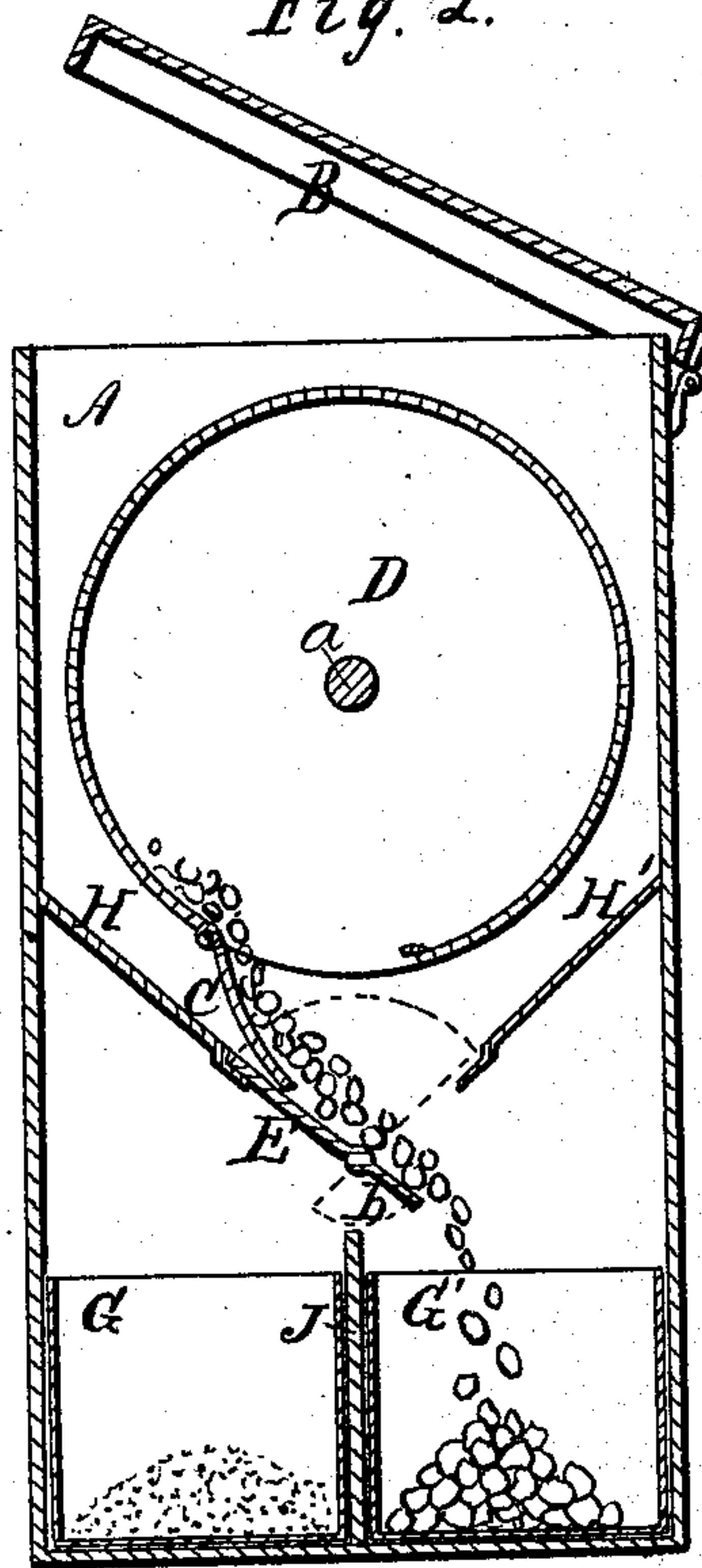


Fig. 2.



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United States Patent Office.

CHARLES F. MYER, OF TROY, NEW YORK.

Letters Patent No. 63,170, dated March 26, 1867.

IMPROVEMENT IN ASH-SIFTERS.

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, CHARLES F. MYER, of Troy, in the county of Rensselaer, and State of New York, have invented certain new and useful Improvements in Ash-Sifters; and I do hereby declare that the following is a full and exact description of the same, reference being had to the annexed drawings and to the letters of reference marked thereon, forming a part of this specification, in which—

Figure 1 is a perspective view of said improved ash-sifter; and

Figure 2 is a vertical sectional view taken through said fig. 1.

The same letters refer to like parts in each of said figures.

The nature of my said invention consists, first, in the combination, with a revolving drum-sifter and right and left fixed inclined guide-plates, of a reversing or shifting guide-plate, which is so arranged as to operate to guide the ashes into the ash-box, and when reversed or shifted it then guides the coal and cinders into the coal-box, in manner substantially as hereinafter fully described. My invention also consists in the employment of two drawers or boxes, as arranged, to be used in combination with a drum-sifter, right and left inclined fixed guide-plates, and a shifting or reversing guide-plate, in manner and for the purpose as hereinafter fully described. My invention also consists in, when it is used in combination with a revolving sifter and with right and left fixed inclined guide-plates, and two drawers or boxes, of placing the journals of the shifting or reversing guide-plate, before mentioned, eccentrically, so that when the plate is hung in position for use it may have, when reversed from right to left, and *vice versa*, its lower edge project well over one of said drawers or boxes, to thereby either convey ashes or coals wholly into their respective boxes, in manner substantially as hereinafter fully described.

To enable others skilled in the art to make and use my invention, I now proceed to fully describe its construction and operation.

In the annexed drawings, A represents a suitable case or box, made of wood or iron, within which, and at its upper part, is arranged, so as to rotate on journals, the cylindrical or drum-shaped wire sifter D, which is turned by a crank, F, and it is provided with a door and latch, C, to receive and discharge ashes and cinders through. Below this drum-sifter, and arranged in fixed positions lengthwise with it, and inclined at any proper angle inwards towards each other, are the right and left guide-plates H and H', in manner substantially as shown in said drawings. Below, and in a vertical line passing through the centre of the opening at the lower edges of the aforesaid fixed inclined plates H and H'; properly arranged in lengthwise position with said fixed plates, and to operate on journals by means of a crank or handle, e, is the reversing or shifting guide-plate E. This said plate is adjusted and arranged in such relative position to the aforesaid fixed guide-plates that, when it is shifted respectively from right to left, and *vice versa*, its upper edge will lap on to, or make connection with, one of those plates to convey either ashes or coal, as desired, to their respective boxes. The journals or bearings of this said shifting guide-plate are placed eccentrically, or about half way between its bottom edge and its centre, in manner substantially as shown in said drawings, so that, when shifted into position for conveying ashes or coal, its lower edge, b, may project over the edge of the ash or coal-box, and thereby convey either the coal or ashes entirely into their respective boxes without spilling any of either into the box not intended for it. J is a division-plate, separating the lower part of case A into two parts, each part having fitted to slide into it portable pans or drawers, G and G', which are to be used respectively for ash and coal-boxes.

The operation of my improved ash-sifter is as follows: Ashes and cinders are put into the drum-sifter D through its door, the door is closed and latched, and the top cover B shut. If ashes are to be conveyed into ash-box G, the reversing-plate E is then set in position, as shown in fig. 1 of annexed drawings. The drum-sifter is now revolved by the crank F, and, when the cinders are sufficiently screened from ashes, the reversing plate E is then shifted into its opposite position, as shown in fig. 2, the cover B is lifted, and the drum-sifter is turned until the door C is reached, when its latch is loosened, and the drum turned gradually until the door is brought below. Then the cinders resting upon it cause it to open, and they fall out into their proper box G', in manner as shown in fig. 2. During the operation of sifting ashes in this sifter its outer case is closed tight, and no ashes can escape therefrom.

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

1. In combination with a revolving drum-sifter D and right and left inclined fixed guide-plates H and H¹, I claim the reversing or shifting guide-plate E, constructed and arranged substantially as described, and operating in the manner and for the purpose as set forth.

2. In combination with a drum-sifter D, right and left fixed guide-plates H and H¹, and a shifting guide-plate E, I claim the employment of two ash-pans or boxes G and G¹, arranged in manner and for the purpose as described.

3. In combination with a revolving drum-sifter D, right and left fixed inclined guide-plates H and H¹, and two ash-pans or boxes G and G¹, arranged as shown, I claim placing the journals of the shifting guide-plate E eccentrically, to operate in manner and for the purpose as herein shown.

CHARLES F. MYER.

Witnesses:

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J. J. SAVAGE.