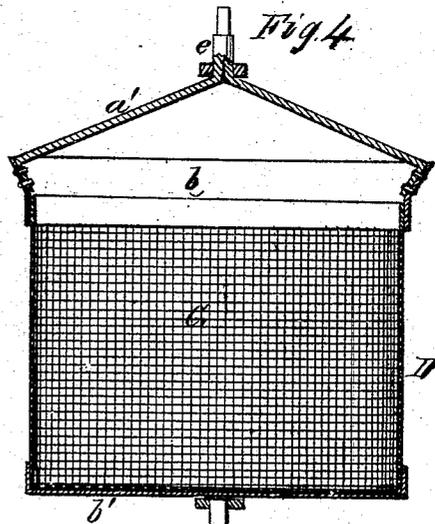
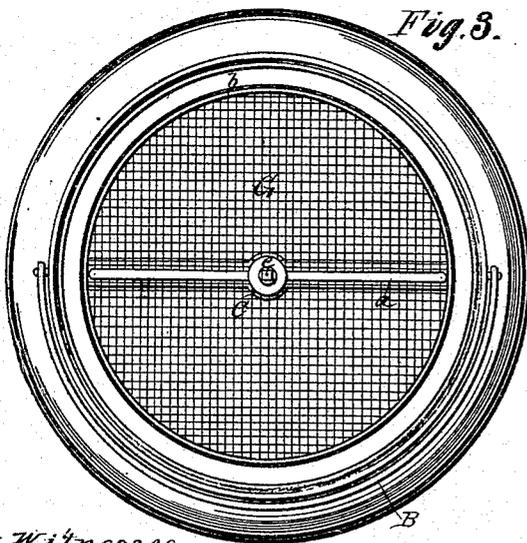
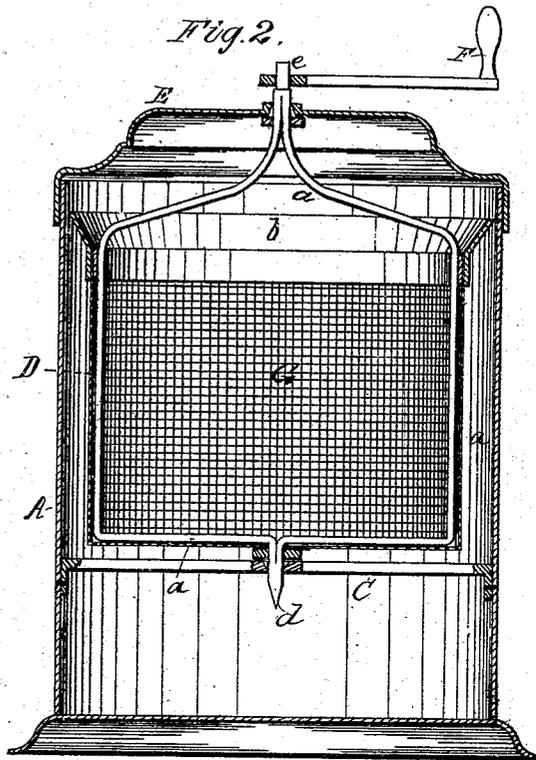
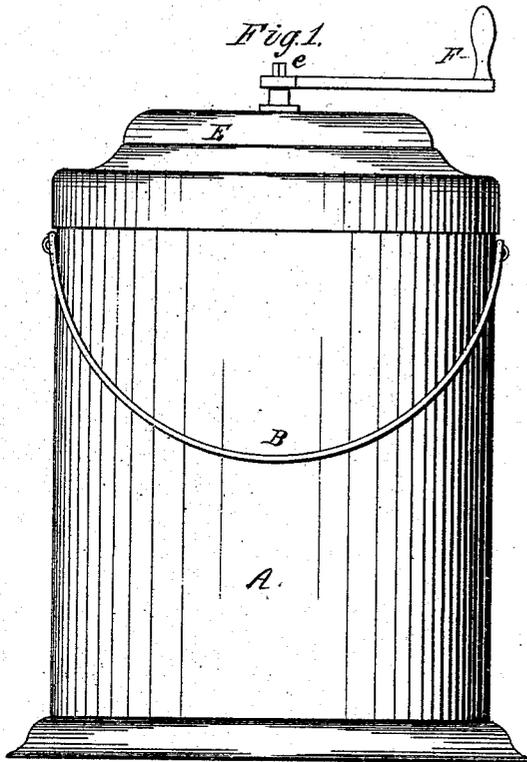


ELIZA HERZBERGER.

ASH-SIFTER.

No. 172,313.

Patented Jan. 18, 1876.



Witnesses.  
A. A. Felder.  
Alex. Scott

Inventor.  
Eliza Herzberger.  
by J. D. Green Atty.

# UNITED STATES PATENT OFFICE.

ELIZA HERZBERGER, OF WASHINGTON, DISTRICT OF COLUMBIA.

## IMPROVEMENT IN ASH-SIFTERS.

Specification forming part of Letters Patent No. 172,313, dated January 18, 1876; application filed September 10, 1875.

*To all whom it may concern:*

Be it known that I, ELIZA HERZBERGER, of the city of Washington, in the District of Columbia, have invented certain Improvements in Coal and Ash Sifters, of which the following is a specification:

The object of my invention is to provide a convenient device by which the coals and ashes from stoves, furnaces, &c., can be readily separated without creating dust in the room or apartment where such sifting is performed.

My invention consists of a case or shell provided with a suitable cover. In such shell a wire-netting or perforated sifter is placed, and is stepped into and supported by a transverse bar, which is secured to the inside of the shell. On the upper part of the upper cross-piece of the sifter is a centering stud or pivot, which passes through the cover when closed, and is provided with a removable crank and handle, by which the sifter is revolved, and the coals and ashes thereby separated.

The drawings accompanying this application form a part of this specification, in which—

Figure 1 is a side elevation of the outside shell or case. Fig. 2 is a central vertical section of the case or shell and sifter. Fig. 3 is a horizontal cross-section of the same. Fig. 4 is a central vertical section of the sifter, showing the top and bottom cross-pieces, made separately, and bolted to the sifter.

Like letters or figures refer to like parts in all of the drawings.

In the drawings, A represents the outside case or shell, which is made of iron, brass, or of any suitable material; E, the cover to the outside case or shell, made to fit closely, to prevent the escape of dust when sifting. The outside case is provided with a bail, B, or convenient handle, for transporting it from place to place.

A bar, C, which supports the sifter D, is secured by bolts or rivets to the inside of the case or shell, at about one-third of the distance from the bottom to the top, so as to leave room below the sifter for the ashes. The bar C has a step in it, or a hole through it in the center, between the sides of the shell,

to receive the central pivot or stud *d*. (See Fig. 2.)

The sifter D, into which the coals and ashes are placed for sifting, consists of a metallic frame, *a a*, cast or formed in one piece, and having the central pivots or studs *d* and *e* thereon, and to which frame the wire-netting or perforated metal G and flange *b* are attached. At the top part of the sifter D is a flaring or funnel-shaped flange, *b*, the outside edge of which nearly fills the outer case or shell A, so that the coals or cinders will not pass or lodge between the flange *b* and shell A. The sifter D is made about one inch smaller in diameter below the flange *b* than the case A, so as to leave about half an inch space all around between the sifter D and the shell A, so as to work freely and without clogging.

The frame *a a*, or top and bottom cross-pieces to the sifter D, are provided with central pivots or studs *d* and *e*, as shown in Figs. 2 and 4. The bottom one, *d*, is long and pointed, so as to readily enter the hole or seat in the cross-bar C; and it also has a shoulder or collar, on which the sifter D rests upon said cross-bar C. This pivot or stud *d* is stepped into the bar C. The upper or top pivot or stud *e* passes through the cover E of the shell A. On this pivot or stud *e* is fitted a crank and handle, F, as shown in Figs. 1 and 2. The top and bottom cross pieces or bars of the sifter D, to which the central pivots or studs *d* and *e* are attached or form a part, may be made separate and fastened to the sifter D, as shown in Fig. 4, at *a'* and *b'*.

To operate this sifter, remove the cover E, put the coals and ashes into the sifter, put on the cover, attach the crank, then turn the sifter by the crank around and around, or a part of the way around and back, continuing until the coal and ashes are separated, which is quickly done. This operation may be performed in any room or parlor, without creating dust in the apartment.

The advantages of my improved sifting device will readily be appreciated by the house-keeper and others, as it is simple, not liable to get out of order, can be easily operated, and will make no dust in the apartment where operated.

Having thus described my invention, what

I claim, and desire to secure by Letters Patent, is—

The perforated metal or wire-netting sifter D, having a flaring or funnel-shaped flange, *b*, at its top, an inner frame, *a a*, or cross-pieces *a'* and *b'*, to which are attached the central pivots *d* and *e*, all arranged within the case A and cover E, said case A provided with

the bearing-bar C, so that said sifter may be rotated within said case by a crank or handle outside of the case and cover, substantially as and for the purposes described and set forth.

ELIZA HERZBERGER.

Witnesses:

CHAS. P. WEBSTER,

F. H. REGAN.