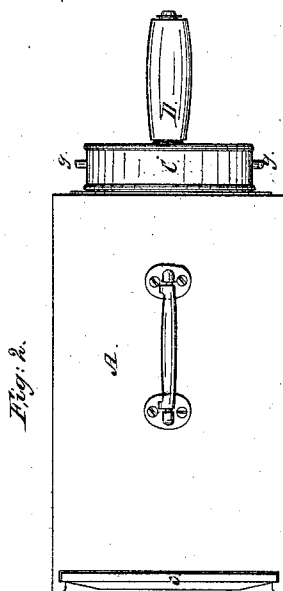
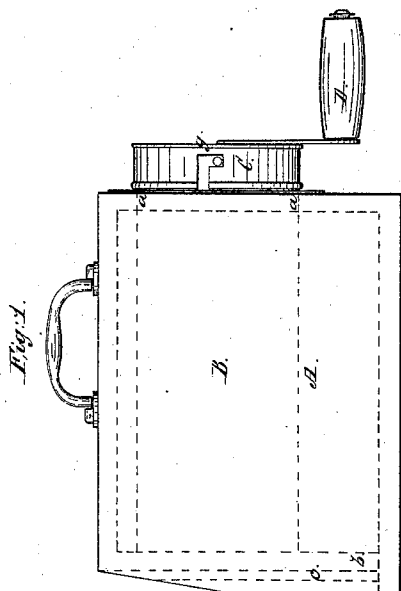
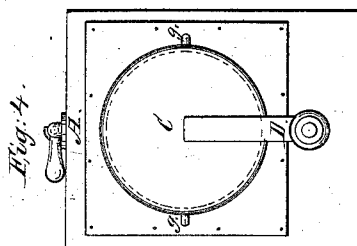
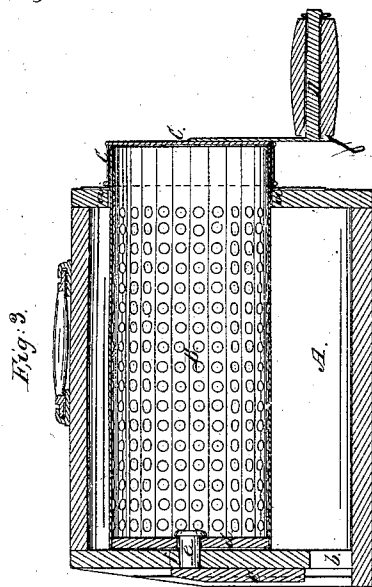


D. J. Starrett,

Ash Sieve.

N^o 32,211.

Patented Apr. 30, 1861.



UNITED STATES PATENT OFFICE.

DAVID J. STARRETT, OF THOMASTON, MAINE.

COAL-SIFTER.

Specification of Letters Patent No. 32,211, dated April 30, 1861.

To all whom it may concern:

Be it known that I, DAVID J. STARRETT, of Thomaston, in the county of Lincoln and State of Maine, have invented an Improved Coal-Ash Sifter; and I do hereby declare the same is fully described and represented in the following specification and the accompanying drawings, of which—

Figure 1, denotes a side elevation; Fig. 2, a top view; Fig. 3, a vertical, central and longitudinal section; and Fig. 4, a front end view of it.

In such drawings, A, represents a closed case, or box, having a circular opening *a*, in the upper part of one end, and a discharging aperture *b*, in the lower part of its opposite end, the latter aperture being furnished with a slide, or door, *c*, by which it may be opened, or uncovered, as occasion may require. Through the aperture *a*, and supported by the same so as to be capable of freely rotating therein, a cylindrical screen B, extends, it being made to project both into and out of the case A, as shown in Fig. 3. That end of the screen which is within the case A, is provided with a closing head *d*, and a journal *e*, projecting therefrom, the said journal being made to enter and rotate in a corresponding bearing *f*, formed in the adjacent end of the case A. The screen B, is perforated with numerous holes; or it may be constructed of wire woven together with meshes between them and of sufficient fineness for sifting such coal ashes as may be placed within the screen. On that part of the screen which projects out of the box or case, a cover C, is to be fitted and held in place by one or more bayonet catches, as shown at *g*, in Fig. 1, the said cover having a crank D, projecting from it, in order that a person by taking hold of such crank may be able to put the screen in rotation within the case A.

In order to supply the screen with coal ashes, all that is necessary will be to turn

the case up endwise into nearly a vertical position, and remove the cover from the rotary screen B, which having been accomplished, we shall have the screen open so as to allow coal ashes to be thrown into it. When it has been supplied with the same, the cap, or cover, may be restored to its place, and the machine turned down into a horizontal position. Next, by laying hold of the crank and putting the screen in revolution, the ashes will be separated from the coal, and be received within the case; from which they may be discharged through the opening *b*, whenever it may be desirable.

By this simple construction of a coal sifter, I am enabled to make one at little expense, of easy access, and so completely tight, that little or no ashes, while its screen is in revolution, can escape from the case surrounding the screen. The crank by being fastened to the cover, serves a two-fold purpose, viz., to enable a person either to remove the cover from the screen or to put the screen in revolution, as circumstances may require.

I do not claim a coal ash sifter as made with a revolving screen and an inclosing case; but

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

Constructing the revolving screen B, so that one end shall project out through a closely fitting aperture *a*, in one side of the closed case A, and turn therein, as a bearing, so that, in connection with a removable cap C, or its equivalent, the coal may be put in, and taken out of, the screen, without removing the same from, or exposing the interior of, the case, substantially as and for the purposes herein specified.

In testimony whereof I have hereunto set my signature.

DAVID J. STARRETT.

Witnesses:

R. H. EDDY,
F. R. HALE, Jr.