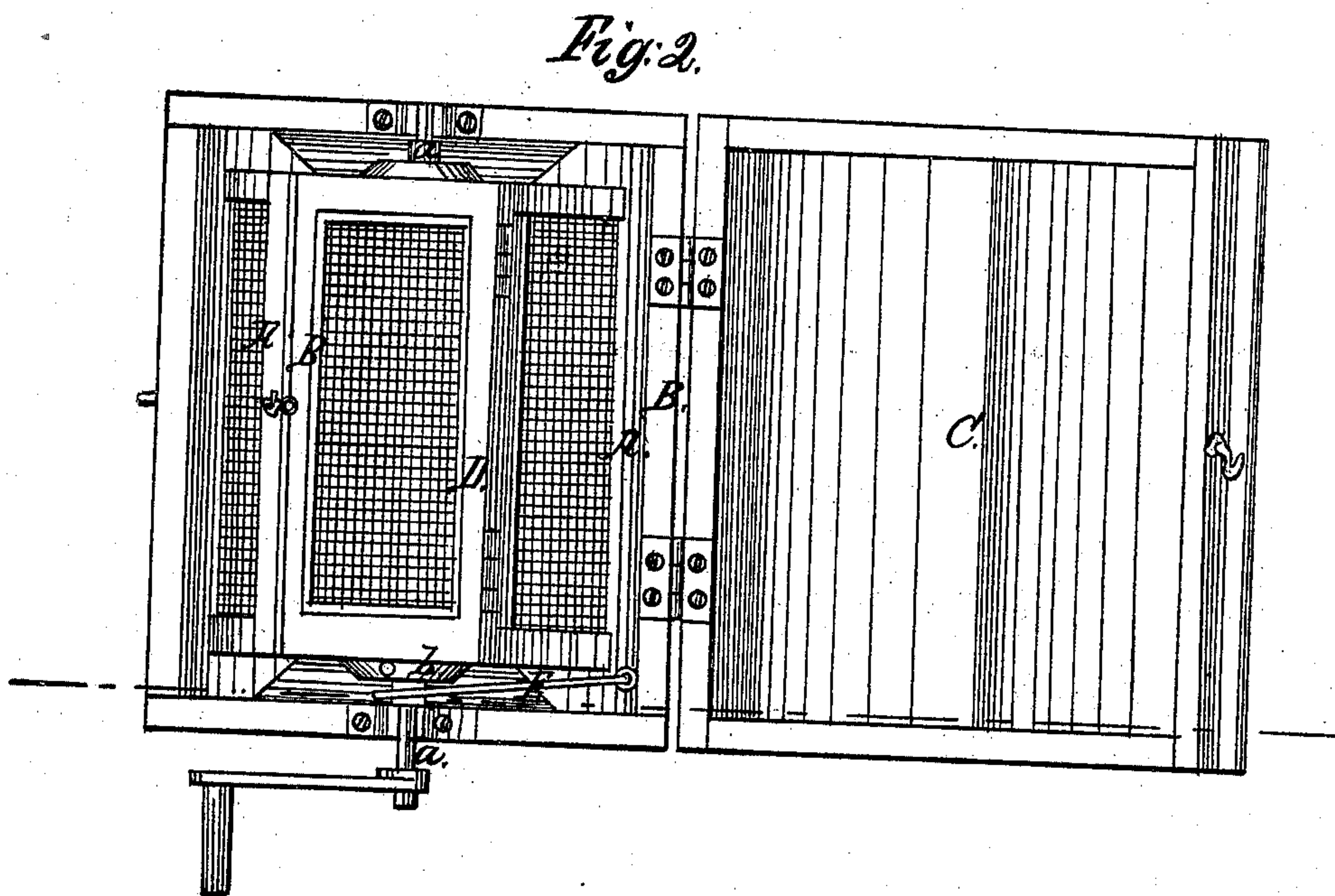
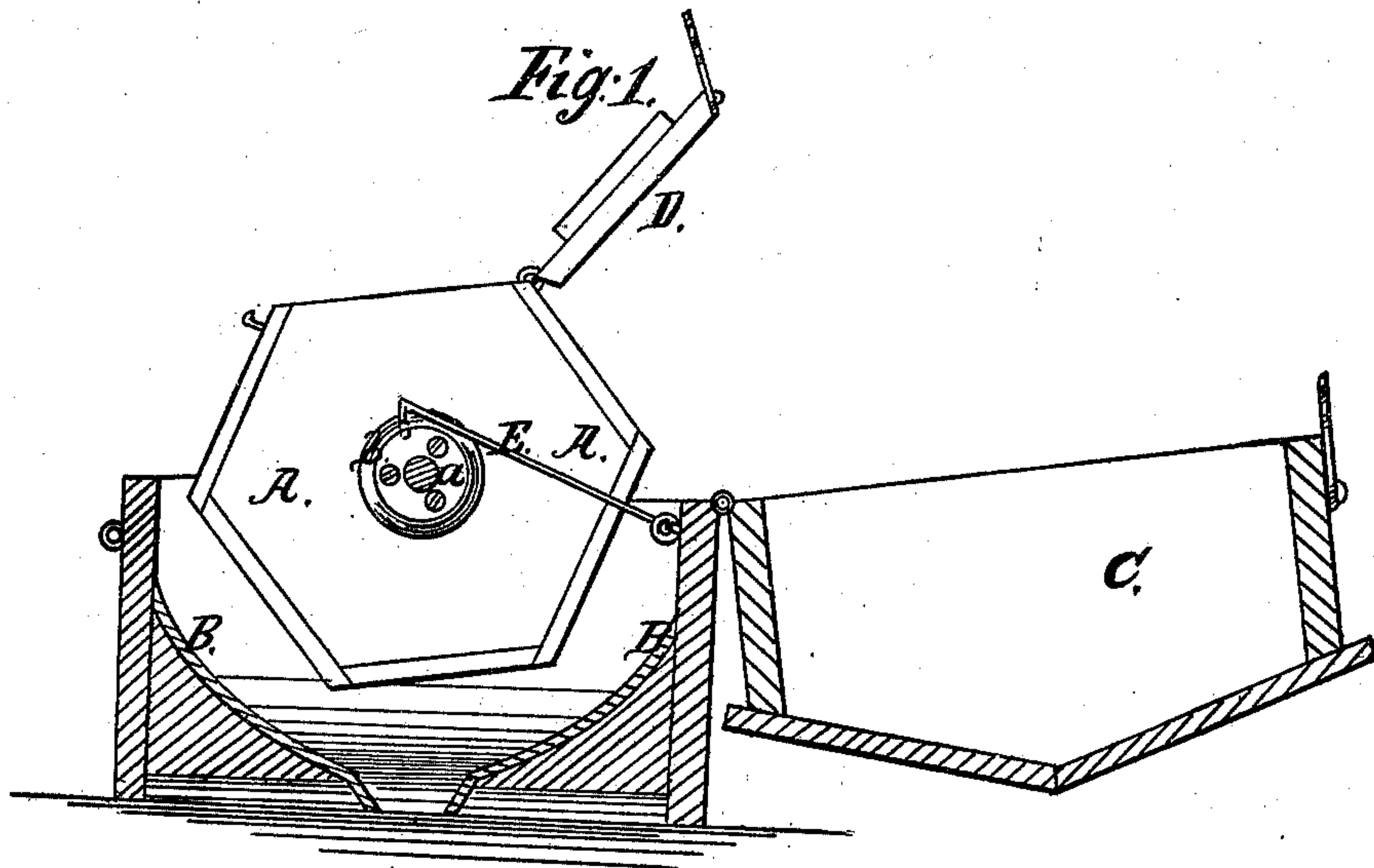


A. Hagadorn.

Sifter.

Nº 97,503.

Patented Dec. 7, 1869.



Witnesses.
M. Vorland
W. H. Clark

Inventor
A. Hagadorn
Wm. H. Clark
Attorneys.

United States Patent Office.

ABRAM HAGADORN, OF CANAJOHARIE, NEW YORK.

Letters Patent No. 97,503, dated December 7, 1869.

IMPROVED COAL-ASH SIFTER.

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, ABRAM HAGADORN, of Canajoharie, in the county of Montgomery, and State of New York, have invented a new and improved Coal-Ash Sifter; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

Figure 1 represents a vertical transverse section of my improved coal-ash sifter.

Figure 2 is a plan or top view of the same.

Similar letters of reference indicate corresponding parts.

This invention has for its object, to so construct coal and ash-sifters, of that class in which a rotary screen is employed, that such screen can be locked stationary while coal and ashes are being filled in.

The ordinary rotary ash-sifters heretofore in use, were not provided with such device, and the screens will therefore turn while being filled, and will dump out their contents before they are sifted.

A, in the drawing, represents a cylindrical or prismatic perforated screen, hung in a funnel-shaped or other box, B, so that the axle-ends *a*, projecting from the ends of the screen, have their bearings in the ends of the box, as shown.

The box may be provided with a lid, C, which is closed when the sifting-process is carried on.

The screen itself is provided with a hinged door, D, through which it can be filled and emptied.

E is a hook hung on the inside of the box, so that it can be locked into an aperture formed in the edge of a disk or plate, *b*, that projects from one end of the screen, or into a staple or other device attached to the screen.

When the hook is thus locked to the screen, the latter is held fast, so that it cannot turn, and the door, which will then be on the upper side, can be opened, and the screen filled without any danger of dumping its contents by spontaneous turning.

When the screen is filled, the door D is closed, and the hook detached from it. While the screen is being revolved by hand or otherwise, the hook may be placed upon the arbor *a*, as in fig. 2, so that it will not interfere with the sifting-operation. If it is short enough, it may be suspended in the box, out of the way of the screen.

The same invention is applicable to all other kinds of rotary screens.

Having thus described my invention,

What I claim as my improvement in ash-sifters, is—

The hook E, to hold the sifter firmly while being filled, in combination with sifter A, case B, and covers C D, constructed as shown and described.

ABRAM HAGADORN.

Witnesses:

JOHN L. ELLITHORP,

CHAS. H. VAN DEUSEN.