J. W. Custer,

Ash Siere.

No. 70,817. Patented Nov. 12, 1867.

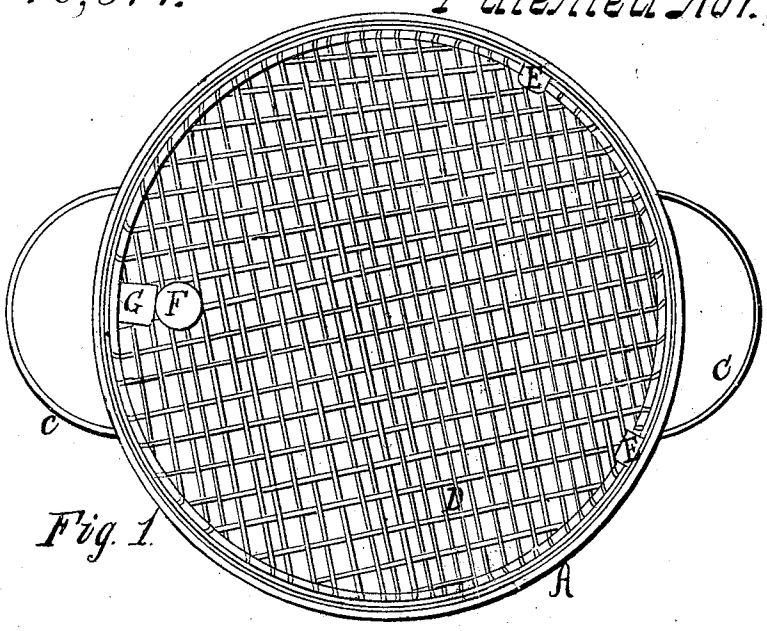


Fig. 1.

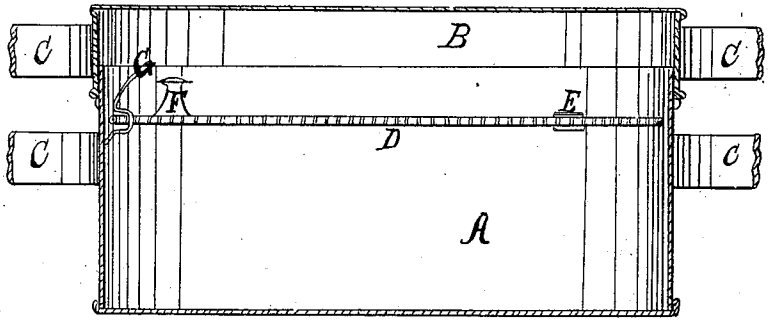


Fig. 2.

Witnesses

A. A. Yeatman

A. W. Mann

Inventor

J. Warren Custer

per Alexander Mason

Atty

United States Patent Office.

J. WARREN CUSTER, OF TRAPPE, PENNSYLVANIA.

Letters Patent No. 70,817, *dated November* 12, 1867.

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, J. WARREN CUSTER, of Trappe, in the county of Montgomery, and in the State of Pennsylvania, have invented certain new and useful Improvements in Coal and Ash-Sifters; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

In the annexed drawings, making part of this specification, A represents a metallic box, and B its close-fitting cover, both of which are provided with ears or handles C C, by means of which they are lifted. D represents a wire sieve, which is made in form and size to fit snugly within the box A. Upon the inside of the box are formed or secured stationary jaws E E, which receive between them the periphery or the edges of the sieve for holding or supporting it within the box. G represents a spring, which is also secured within the box, for assisting in securing the sieve, and which admits of its being removed at pleasure.

To use this sifter, the coal-ashes, with the cinders, &c., are poured into the box A, (the sieve having been first removed.) The sieve is then replaced and confined by spring G and jaws E. The lid B is placed upon the box, and then, the whole being turned over or upside down, the operator, taking hold of the ears or handles, proceeds to sift in the usual manner, either by a quick vibratory or rotary motion. After separating the ashes from the coals by this sifting process, the box is placed upon the floor or earth, and the dust is allowed to settle. The lid B being down, the ashes and dust settle in the said lid, while the coal remains upon the sieve within the box. The operator lifts up the box by its ears, removes the coal, and the ashes being carried away in the lid, the sifter is ready for further operation. Instead of a separate and independent box, I may use the ash-box of the ordinary stove, having a sieve fitted to it in the manner herein described, and having it provided with a close-fitting cover.

I am aware that a circular-box sifter, with a perforated plate for a sieve, has been known before.

What I claim, is—

The arrangement of the wire sieve D, having a wire around its circumference, when secured within a circular box, A, by means of the jaws E E, formed in said box, and the spring G, in the manner and for the purposes set forth.

In testimony that I claim the foregoing, I have hereunto set my hand and seal this 21st day of June, 1867.

J. WARREN CUSTER.

Witnesses:

N. H. LONGABOUGH,

FRANK LIVENGOOD.