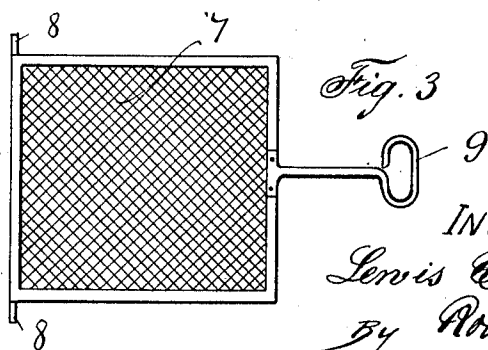
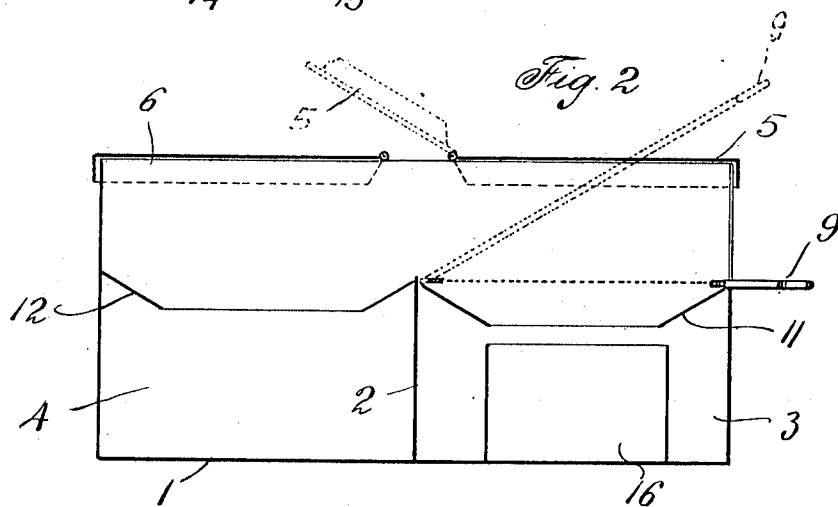
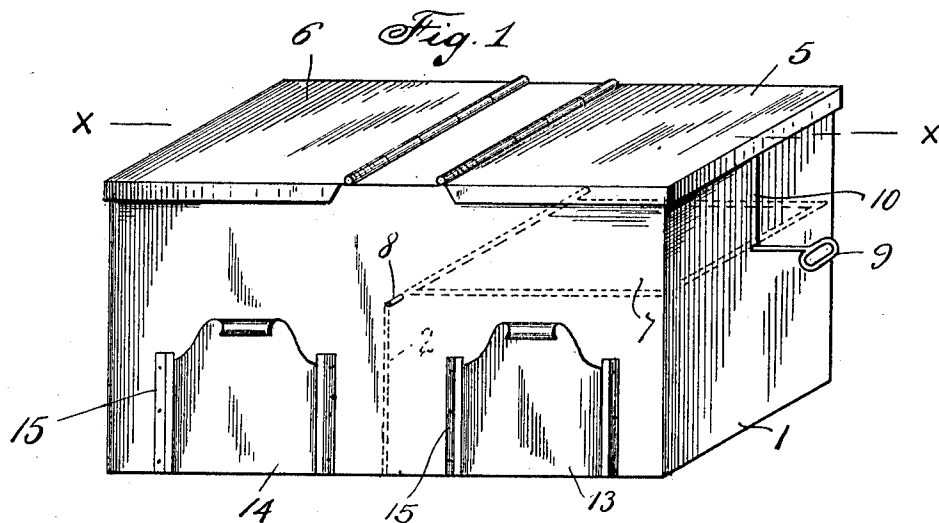


L. CALDER.
ASH SIFTER.
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1,041,017.

Patented Oct. 15, 1912.



WITNESSES
G. Washburn
Julius Geiger

INVENTOR
Lewis Calder
By Robt. Klotz
Atty.

UNITED STATES PATENT OFFICE.

LEWIS CALDER, OF CHICAGO, ILLINOIS, ASSIGNOR OF ONE-FOURTH TO HARRY FREEDMAN, OF CHICAGO, ILLINOIS.

ASH-SIFTER.

1,041,017.

Specification of Letters Patent.

Patented Oct. 15, 1912.

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To all whom it may concern:

Be it known that I, LEWIS CALDER, a citizen of the United States, and a resident of Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Ash-Sifters, of which the following is a complete specification.

The main objects of this invention are to provide an improved ash-sifter; to provide an ash-sifter from which the ashes may be quickly and easily separated from the unburned coal; to provide an ash-sifter having a compartment adapted to receive the unburned coal directly from the screen; and to provide a cheap, simple and durable device in which the clinkers may be separated from the coal.

A specific embodiment of the invention is illustrated in the accompanying drawing, in which:

Figure 1 is a perspective view of an ash-sifter embodied in this invention. Fig. 2 is a section taken on line $x-x$ of Fig. 1. Fig. 3 is a plan view of the screen.

In the construction shown the casing or box 1 is constructed of wood, metal, or any other desired material, and is provided with a central transverse partition 2 which extends from the bottom of the case upwardly for preferably more than half the height of the case. The partition 2 divides the case into an ash compartment 3 and a coal compartment 4, and said compartments are provided with hinged covers or lids 5 and 6, respectively, which are preferably flanged to overlap the edges of the casing and prevent the escape of dust.

The screen 7 is pivoted at its edge adjacent to the partition 2 to a pivot rod 8 which is supported at its ends in the side walls of the casing at a point adjacent to the top of the partition. On the opposite edge of the screen is a handle 9 which projects outwardly from the casing through a slot 10 in position to be manually operated. The screen is of a size to extend across the compartment 3 in either direction, and immediately below the level of the screen, in the ash compartment is a hopper bottom 11 beneath which a pail or other receptacle may be placed to catch the ashes. In the coal compartment 4 is a hopper bottom 12,

on a level with the hopper 11, beneath which a receptacle may be placed to receive the coal.

On the side of the case are vertically sliding doors 13 and 14 which slide in guides 15 and afford access to the compartments 3 and 4 respectively, beneath the hopper bottoms so that the receiving receptacles may be inserted or removed.

The operation of the construction shown is as follows: The cover 5 is raised and the combined ashes and coal are placed in the compartment 3 onto the screen 7. The screen is then gently agitated vertically and the ashes pass through the screen and through the hopper bottom 11 into the receptacle 16. After the ashes have been separated the clinkers may be sorted from the coal, and then by raising the screen up to the position shown in dotted lines in Fig. 2, the coal will run off into the compartment 4 and pass through the hopper bottom 12.

While but one specific embodiment of the invention has been herein shown and described it will be understood that many details of the construction shown may be varied or omitted without departing from the scope of the claim.

I claim:

An ash sifter comprising a casing, a partition dividing the lower portion of the casing into two compartments, a hinged cover on the casing over each compartment, a raised hopper bottom in each compartment, a screen covering one of said hopper bottoms and having one side hinged at the partition, a handle on the opposite side of the screen extending outwardly through a slot in the end of the casing, said handle being adapted to tilt said screen on its hinges for sifting and for dumping coarse material thereon into the other compartment, and a vertically sliding door in the sides of the casing below each hopper.

In witness whereof I have hereunto subscribed my name in the presence of two witnesses.

LEWIS CALDER.

Witnesses:

JOSEPH SCHLENKER,
ROBT. KLOTZ.