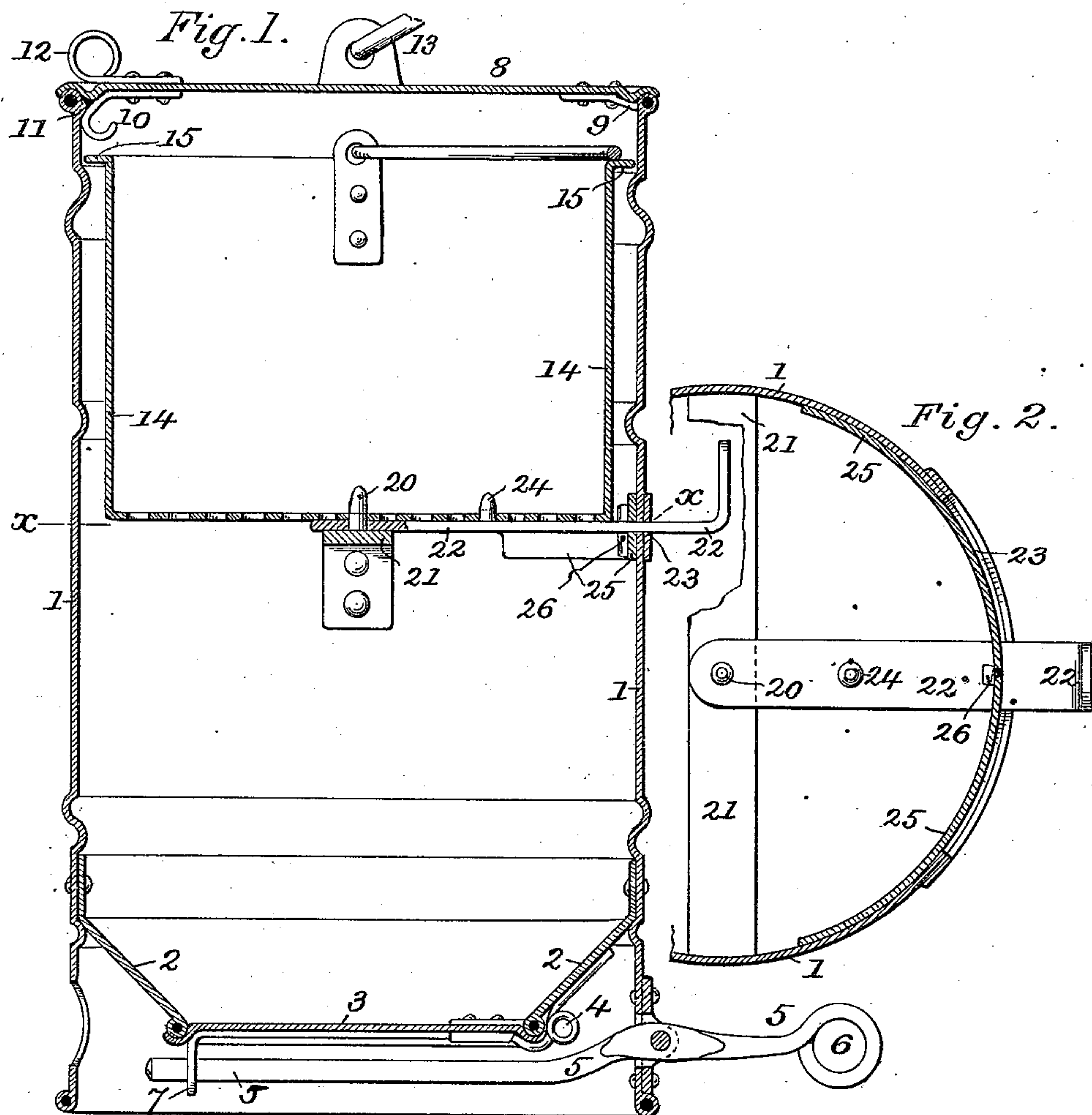


(No Model.)

A. WOLFF.
ASH SIFTER.

No. 547,510.

Patented Oct. 8, 1895.



Attest:

James Ravallin

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Inventor:

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UNITED STATES PATENT OFFICE.

ABRAHAM WOLFF, OF CHICAGO, ILLINOIS.

ASH-SIFTER.

SPECIFICATION forming part of Letters Patent No. 547,510, dated October 8, 1895.

Application filed February 9, 1895. Serial No. 537,773. (No model.)

To all whom it may concern:

Be it known that I, ABRAHAM WOLFF, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Ash-Sifters; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of this specification.

The present invention relates to that type of household-sifters for separating and grading coal-ashes; and the object of the present improvements is to provide a simple and efficient arrangement of the sifter parts whereby the sifting is accomplished without raising a "dust," the finer ashes collected in a separate receiving portion of the sifter-casing, while the unburned coals, &c., are retained, so as to be conveniently returned to the stove or stored away for future use, as will hereinafter more fully appear, and be more particularly pointed out in the claims. I attain such objects by the construction and arrangement of parts illustrated in the accompanying drawings, in which—

Figure 1 is a vertical section of an ash-sifter constructed in accordance with the present invention; Fig. 2, a detail horizontal section of the same at line *xx*, Fig. 1, illustrating the operating mechanism of the sifter proper.

Similar numerals of reference indicate like parts in both views.

Referring to the drawings, 1 represents the main casing or housing of the ash-sifter, of a cylindrical form, its lower end being formed with an inverted frusto-conical bottom 2, that converts the bottom portion of such housing into a receiving-chamber for receiving the finer ashes removed in the sifting operation.

3 is a centrally-arranged door closing the opening in the frusto-conical bottom 2 and affording a ready and convenient means for the removal of the fine ashes, as occasion may require. In the present invention this door 3 will be hinged at one side to the bottom 2 and provided with a spring 4, by which it is normally held closed, 5 being an operating-lever for said door, pivoted at one side of the housing, one end being provided with an operating ring or handle 6, while the other end extends past the hinge of the door 3 and is en-

gaged in a pendent ring or lug 7 on the free end or edge of such door, as shown in Fig. 1. The upper end or top of the casing 1 is also provided with a cover or top 8, hinged at one side by a hinge 9, and at its free end provided with a spring-catch 10, that engages a projection 11 or the interior of the casing to latch the cover or top 8 in place.

12 is a finger-ring on the cover 8, by which the same is manipulated.

13 is a hinged bail on the main casing 1 for convenient handling and manipulating the same.

In the present invention, 14 is an open-topped cylindrical chamber, the bottom of which is of a perforated nature. This sifting-chamber is supported in the upper end of the main chamber 1, so as to be capable of being oscillated upon a vertical axis therein on an axial pivot 20 on the transverse bridge-bar 21 of the main casing 1, its upper end being provided with an outturned marginal flange 15, that bears against the interior of the casing 1 to support the sifting-chamber in proper vertical position. In the construction shown in said Figs. 1 and 2 motion is communicated to the sifting-chamber 14 by a rock-arm 22, pivoted on the axial stud or pivot 20 and extending out through a horizontal slot 23 in the side of the casing 1, so as to be capable of being engaged and manipulated by the hand of the operator.

24 is a stud projection on the arm 22, that engages in one of the perforations in the bottom of the sifting-chamber, so as to lock the two together and cause them to move in unison, the construction being such that the studs 20 and 24 pass up through the perforations and serve as fulcrum and engagement for the sifting-chamber, while freely permitting it to be lifted out or easily replaced.

25 is a segmental plate attached to the arm 22 by a pin 26 and adapted to rest against the interior of the casing 1 to close the horizontal slot 23, regardless of the position of the arm 22 in said slot.

Having thus fully described my said invention, what I claim as new, and desire to secure by Letters Patent, is—

1. An ash sifter, comprising in combination, an outer casing, the bridge bar 21, therein, the axial pivot 20, an agitating arm 22, pivoted

on the axial stud 20, and extending out through the slot 23, in the casing, and provided with upwardly projecting stud 24, and the cylindrical sifting chamber, having a bottom provided with sifting perforations, adapted to permit the studs 20 and 24, to pass through them, substantially as set forth.

2. In an ash sifter, the combination with the outer casing 1, of the hinged bottom door 3, a spring 4, tending to hold the same closed, a lever pivoted to the casing 1, at the same side at which the door is hinged, said lever

being provided at one end, with an operating arm, and at the other, with a slide portion, that engages in an eye 7, upon the free end of the door, and adapted to slide through, said eye in the opening and closing of the door, substantially as set forth. 15

In testimony whereof witness my hand this 7th day of February, 1895.

ABRAHAM WOLFF.

In presence of—

ROBERT BURNS,
C. J. COLEMAN.