

F. D'ORBESSAN & D. V. LOUVET.
SIFTING APPARATUS.
APPLICATION FILED FEB. 5, 1909.

962,090.

Patented June 21, 1910.

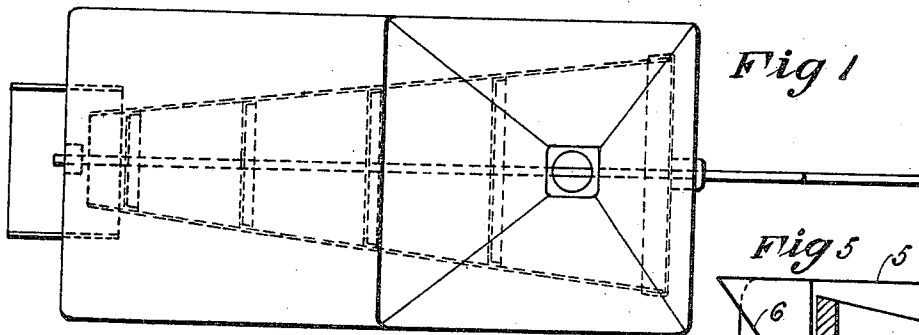


Fig 1

Fig 5

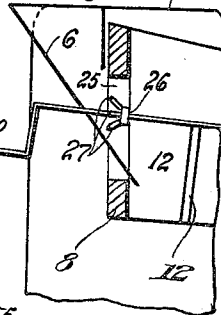


Fig 2.

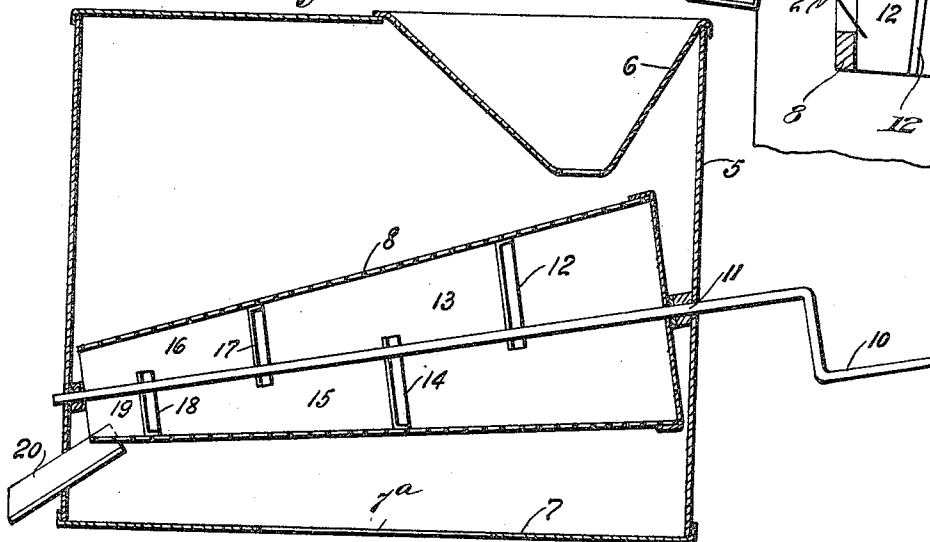


Fig 3.

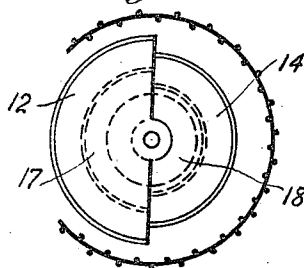
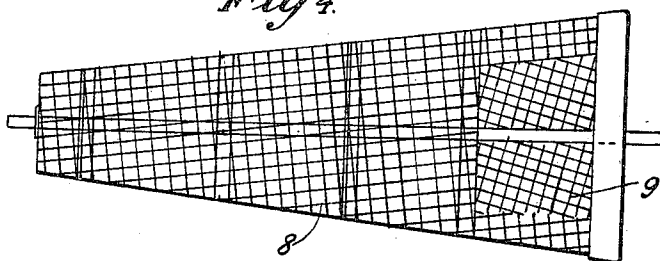


Fig 4.



WITNESSES:

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SIFTING APPARATUS.

962,090.

Specification of Letters Patent. Patented June 21, 1910.

Application filed February 5, 1909. Serial No. 476,322.

To all whom it may concern:

Be it known that we, FERNAND D'ORBESSAN, a citizen of the United States, residing at Ozone Park, in the county of Queens, State of New York, and DESIRE VICTOR LOUVET, a citizen of the United States, residing at Brooklyn Hills, in the county of Queens and State of New York, have invented certain new and useful Improvements in Sifting Apparatus, of which the following is a specification, reference being had therein to the accompanying drawing.

Our invention relates to a sifting apparatus or device designed for use in sifting ashes and separating therefrom charred coal and similar substances; and the object thereof is to provide an improved device of this class which is simple in construction and operation and comparatively inexpensive and by means of which the charred coal or similar substances may be separated from the ashes without producing dust and dirt in the place or compartment where the device or apparatus is used.

The invention is fully disclosed in the following specification, of which the accompanying drawing forms a part, in which the separate parts of our improvement are designated by suitable reference characters in each of the views, and in which:—

Figure 1 is a plan view of our improved and sifter. Fig. 2 a central vertical longitudinal section thereof. Fig. 3 a sectional end view of a conically formed sieve which forms a part of the apparatus or device. Fig. 4 a plan view of said sieve, and Fig. 5 is a partial sectional side view showing a modified form of the apparatus or device.

In the practice of our invention we provide a main outer casing or box 5 in the top of which, and adjacent to one end of which is placed a hopper 6 and the bottom 7 of which is preferably provided with an opening 7^a and the end of which, opposite to that adjacent to which the hopper 6 is placed, is provided at the bottom thereof with a chute or discharge spout 20.

Placed in the casing or box 5 and arranged at an inclination therein is a conically formed screen 8 which is mounted on an axle or shaft 11, and the larger end of which is directly under the hopper 6 and provided with a door or opening 9 and the smaller end of which is open and directly over the dis-

charge chute or spout 20. The screen 8 is provided with a shaft or axle 11 to which it is secured and which passes longitudinally therethrough and is provided with bearings in the opposite sides or ends of the casing or box 5 and the end of said shaft or axle which passes through the larger end of the screen 8 is provided with a crank 10 by which said screen may be turned. The screen 8 is also provided with partial partitions or baffles 12, 14, 17 and 18 arranged in the order named and beginning at the larger end of said screen and these baffles or partitions divide said screen into separate partial compartments four of which are designated by the numbers 13, 15, 16 and 19.

In the use of this device the ashes, charred coal and similar substances are dumped into or fall into the hopper 6 and pass therefrom into the screen 8 through the door 9, said screen being turned so that the door will be directly under the hopper. The screen is then turned by the crank 10 and in this operation the ashes, charred coal, and similar substances pass longitudinally through the screen, and this operation is retarded by the baffles or partial partitions 12, 14, 17 and 18, the said ashes, charred coal and similar substances pass successively into the separate partial compartments 13, 15, 16 and 19, and in this operation the ashes pass through the screen into the bottom of the casing or box, and the charred coal or similar substances pass longitudinally through the screen and are discharged into the chute or spout 20 from which they are or may be discharged into any suitable receptacle prepared therefor. The device or apparatus may also, if desired, be placed on a barrel or other receptacle in such manner that the ashes which pass through the screen, as above described, will fall through the opening 7^a in the bottom of the casing or box 5 and into said barrel or other receptacle, but this barrel or receptacle and the receptacle for receiving the charred coal and similar substances discharged from the chute or spout 20 form no part in our invention and are therefore not shown and described.

In Fig. 5 of the accompanying drawing we have shown a modification in which the large end of the sieve 8 is provided with a central opening 25 and the hopper 6 is so arranged as to receive the ashes, charred coal and similar substances and discharge the same

into said sieve through said opening, and in this form of construction the shaft or axle 11 is provided with a collar 26 having projecting fingers 27, which, when the sieve 8 is turned, stir up the ashes, charred coal and similar substances, and prevent the same from clogging the opening 25.

Having fully described our invention what we claim as new, and desire to secure by Letters Patent, is:—

An ash sifter comprising a casing or box, the top of which is provided adjacent to one end thereof with a hopper and the opposite end of which is provided at the bottom thereof with a discharge spout, and a conical screen mounted in said casing or box, the larger end of which is adapted to receive the discharge from said hopper and provided with a door or opening and the smaller end of which is over said discharge spout, the

larger end of said screen being also higher than the smaller end thereof, said screen being mounted on a shaft or axle, the ends of which are provided with bearings in the opposite ends of the casing or box and that end of the axle which passes through the larger end of the screen being projected and provided with a crank, and the opposite side portions of said screen being provided with alternately arranged baffles or partial partitions which divide said screen into partial compartments.

In testimony whereof we affix our signatures in presence of two witnesses.

FERNAND D'ORBESSAN.
DESIRE VICTOR LOUVET.

Witnesses:

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