

H. HOUGK.
ASH SIFTER.

APPLICATION FILED AUG. 3, 1908.

Patented Sept. 13, 1910.

970,336.

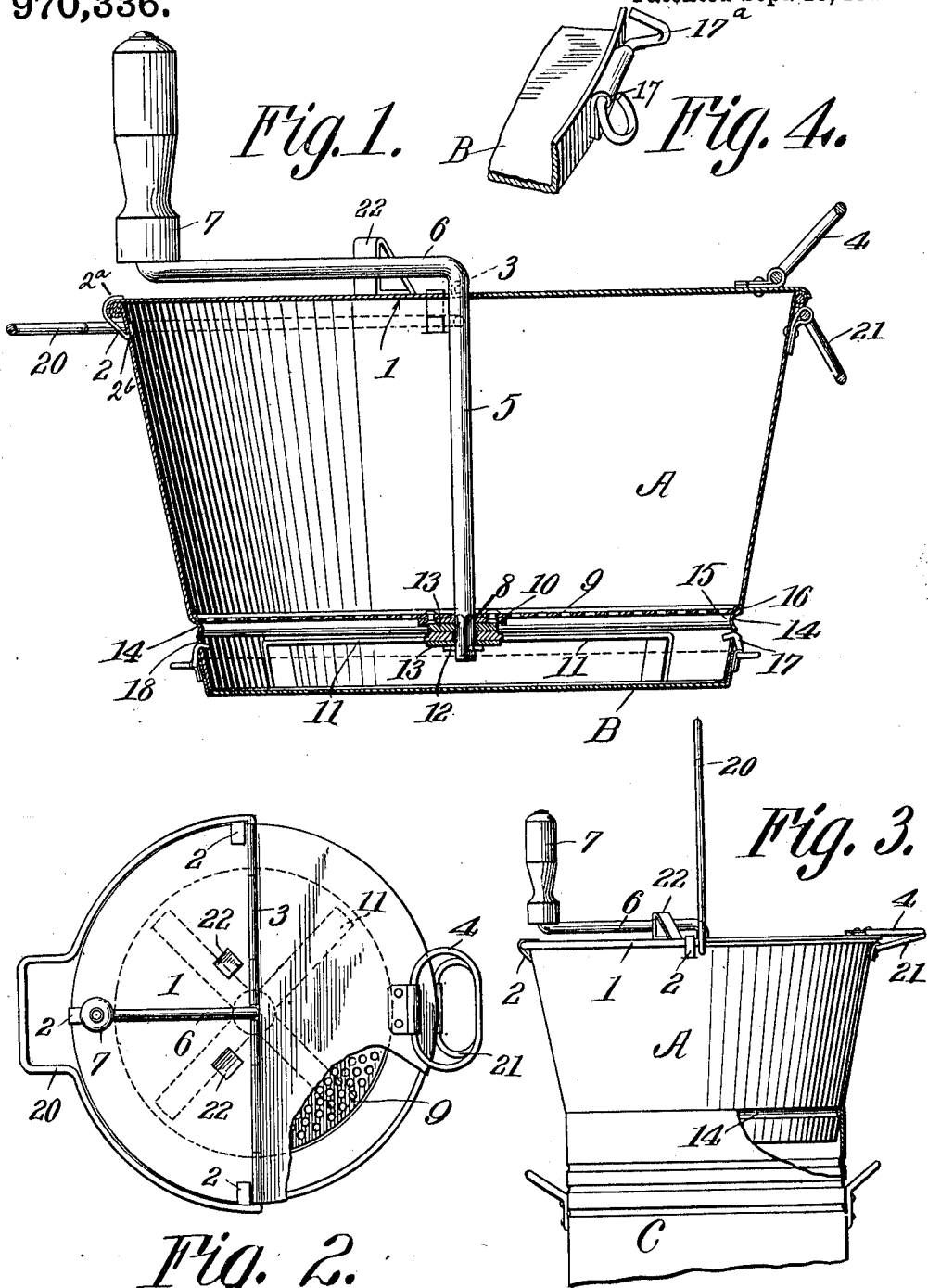


Fig. 2.
WITNESSES

Frank B. Wooden.
E. Walter Brevington

INVENTOR

Henry Hougk
By Henry F. Brevington
Attorney

UNITED STATES PATENT OFFICE.

HENRY HOUGH, OF BALTIMORE, MARYLAND.

ASH-SIFTER.

970,336.

Specification of Letters Patent. Patented Sept. 13, 1910.

Application filed August 3, 1908. Serial No. 446,560.

To all whom it may concern:

Be it known that I, HENRY HOUGH, a citizen of the United States, residing at Baltimore city, State of Maryland, have invented certain new and useful Improvements in Ash-Sifters, of which the following is a specification.

My invention relates to an improvement in ash-sifters, the object being to effectually separate from waste ashes the cinders which are available for consumption as fuel.

My invention has for its object to provide an ash sifter of a character to be hereinafter described in which the sifting of the ashes may be accomplished in a very effective manner and the ashes deposited in a suitable receptacle while the cinders are retained in the device ready for use as fuel.

The further object of the invention is to provide a sifter that is practically tight and will prevent the escapement of any dust, also a device simple in construction, easy in operation and which can be manufactured and sold at a comparatively small cost.

With the foregoing objects in view, my invention consists in certain novel features of construction and combinations of parts, which will be hereinafter described and pointed out in the claim.

In the accompanying drawings, Figure 1 is a view in sectional elevation of the invention. Fig. 2 is a top plan view of the same with part of the hinged cover broken away. Fig. 3 is a side elevation showing the sieve applied to the top of an ordinary ash can, and Fig. 4 is a detail perspective view of a portion of the removable bottom with one of the hooks attached.

A, represents a pot or receptacle for the ashes, provided with a cover 1, removably secured thereon by means of the hooks 2 provided with upper bent ends 2^a bearing upon said cover and with lower bent ends 2^b engaging the interior surface of the wall of the receptacle. The cover is composed of two sections, which are hinged together at 3.

4 is a handle on the cover, by which means one section is opened and closed.

5 is a vertical shaft horizontally bent at 6 above the cover 1, and is provided with a handle 7 on the end thereof. On the opposite free end of the vertically extended squared end portion 8 is secured a perforated metal disk 9, reinforced at its center

by a disk 10 secured thereto, through which is extended the squared end portion 8.

11 are cross bars secured within the lower end portion of the receptacle for supporting the shaft 5, which passes through the rods at their point of intersection, the shaft being secured therein by means of the pin 12.

13—13 are washers secured between the disk 10, cross bars 11 and pin 12, respectively, for the purpose of overcoming friction and lost motion between the parts.

14 indicates a circumferential groove exteriorly provided in the lower end portion of the receptacle thereby forming a circumferential bead 15 on the inner side upon which is supported the circumferential edge 16 of the disk 9.

B, indicates a bottom for the receptacle A, and is removably secured thereto by means of the hooks 17 carried thereby and provided with upper bent ends 17^a, which are adapted to engage with the lower end portion of the receptacle through the openings 18 provided therein. As clearly shown in detail in Fig. 4, these hooks 17 are pivotally carried by the bottom B, and are provided, at the ends thereof opposite the bent ends 17^a with a bent portion, constituting a finger-hold, by which the hook may be rotated to bring the ends 17^a into and out of engagement with the receptacle A. The purpose of this removable bottom will be hereinafter explained.

20, indicates a handle secured to the upper sides of the receptacle A, by which means the receptacle may be conveniently carried.

21 is a handle secured to the receptacle and positioned directly opposite to the one on the cover when the cover is closed for facilitating the holding of the cover down on the receptacle while sieving the ashes.

C, represents an ordinary ash can into which the receptacle A is adapted to be fitted.

My invention is operated as follows: The receptacle A, with the bottom B secured thereon, is first filled with ashes, the bottom serving to keep the ashes from falling from the receptacle while the receptacle is being carried to the place selected for the sifting operation, when ready to sift the ashes, the bottom B is removed and the receptacle inserted into an ash can (as shown in Fig. 3),

the handle 7 given a few turns thereby causing the perforated disk 9 to rotate, and thereby sieve the ashes from the cinders, the ashes passing into the can C while the cinders remain within the receptacle ready for use as fuel. While the rotating movement of the perforated disk will serve to sieve ashes in a manner very satisfactory, I have found by oscillating the disk that the sieving of the ashes may be accomplished in much less time and in a more effective manner; therefore as a preferred form, I have chosen the latter movement as applicable to my device and have provided on the top of the stationary section of the cover 1 two stops 22, for the purpose of limiting the oscillating movement of the horizontal end portion 6 of the shaft 5, this movement imparted to the handle will in turn cause the perforated disk 9 to oscillate and sieve the ashes more effectively than by rotation.

Slight changes might be resorted to in the form and arrangement of the several parts described without departing from the

spirit and scope of my invention, and hence I do not desire to limit myself to the exact construction as herein set forth, but—

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

An ash sifter, comprising a receptacle, a removable vertical shaft within said receptacle and projecting above the same, means for operating said shaft, a perforated disk to which the lower end of said shaft is connected and which is removable therewith, a circumferential bead formed on the lower inner face of said receptacle and supporting said disk at its edges, and cross bars fixed to said receptacle and supporting said disk and shaft centrally.

In testimony whereof I affix my signature in presence of two witnesses.

HENRY HOUGH.

Witnesses:

E. WALTON BREWINGTON,
MARY M. MAGRAW.