

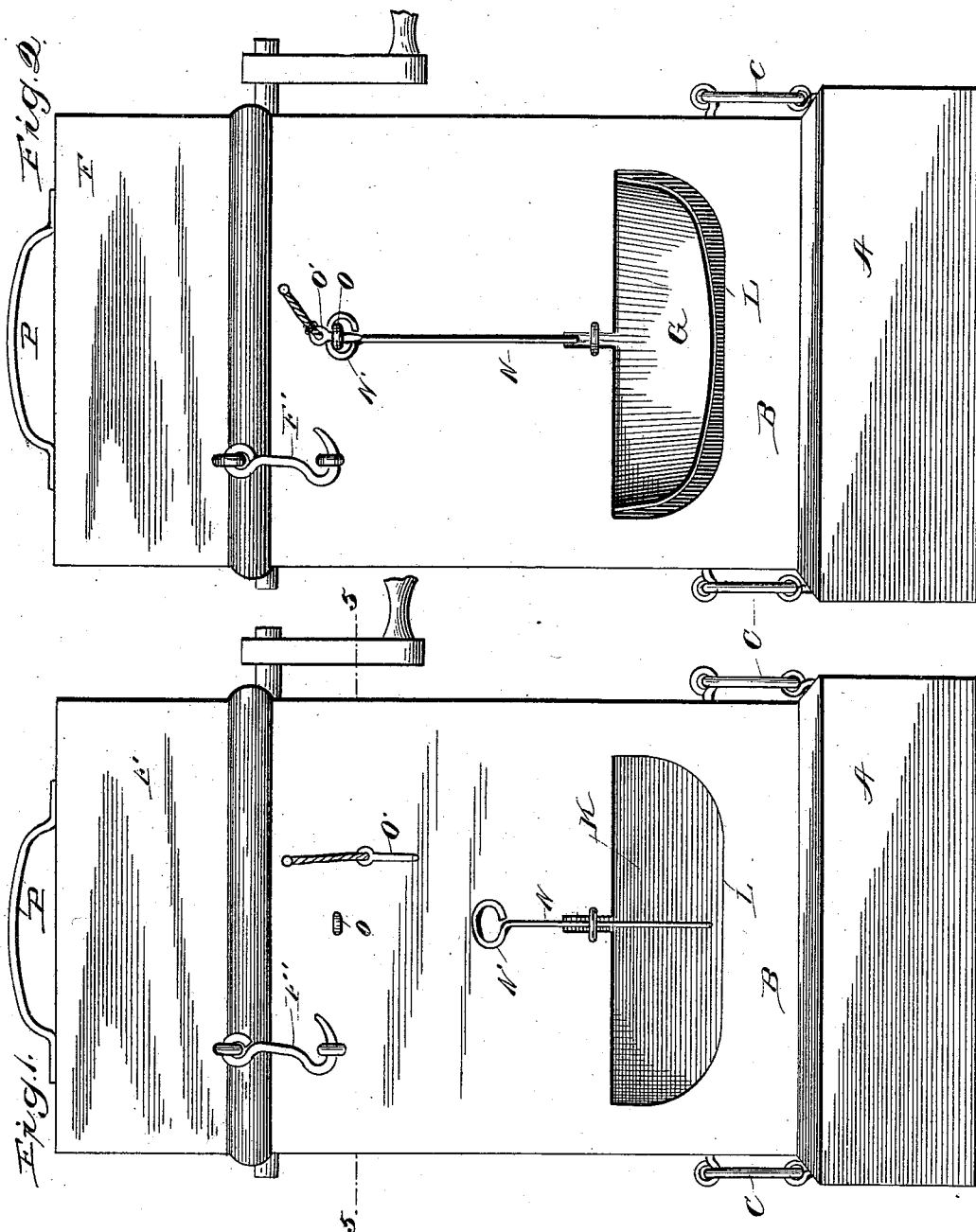
(No Model.)

2 Sheets—Sheet 1.

F. MAULL.
REVOLUBLE ASH SIFTER.

No. 514,764.

Patented Feb. 13, 1894.



Witnesses:
J. M. Foulke Jr.
Roland A. Fitzgerald.

Inventor
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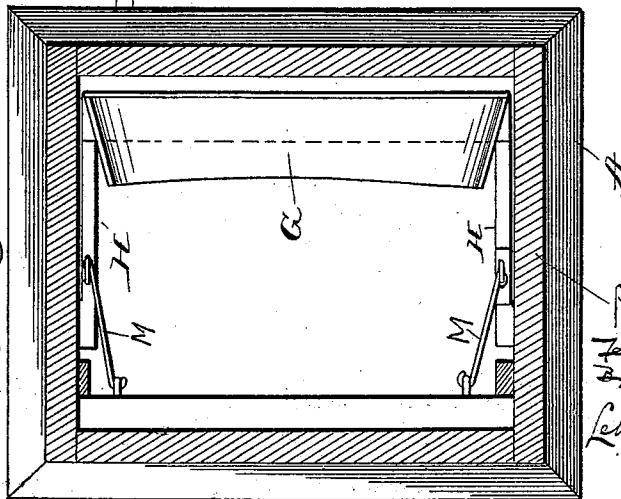
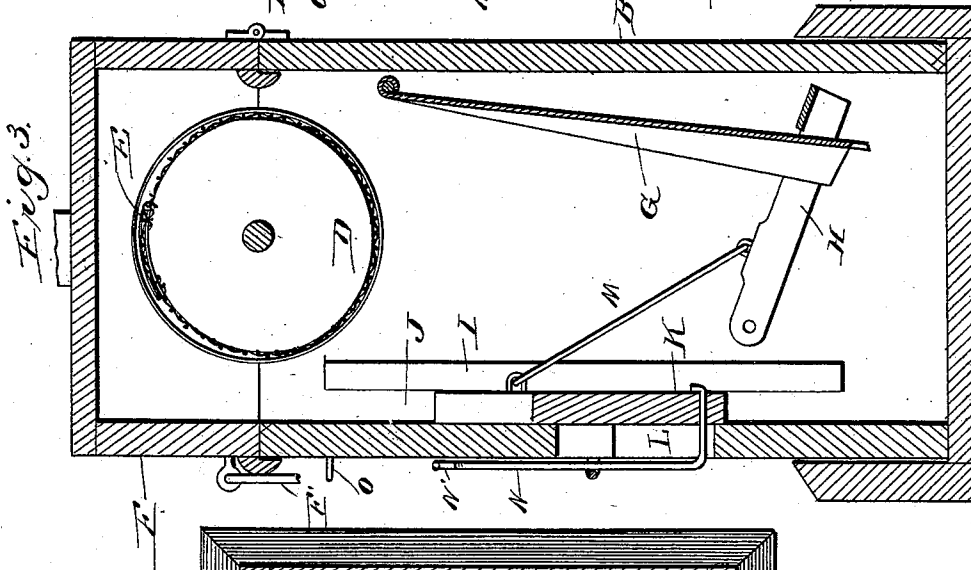
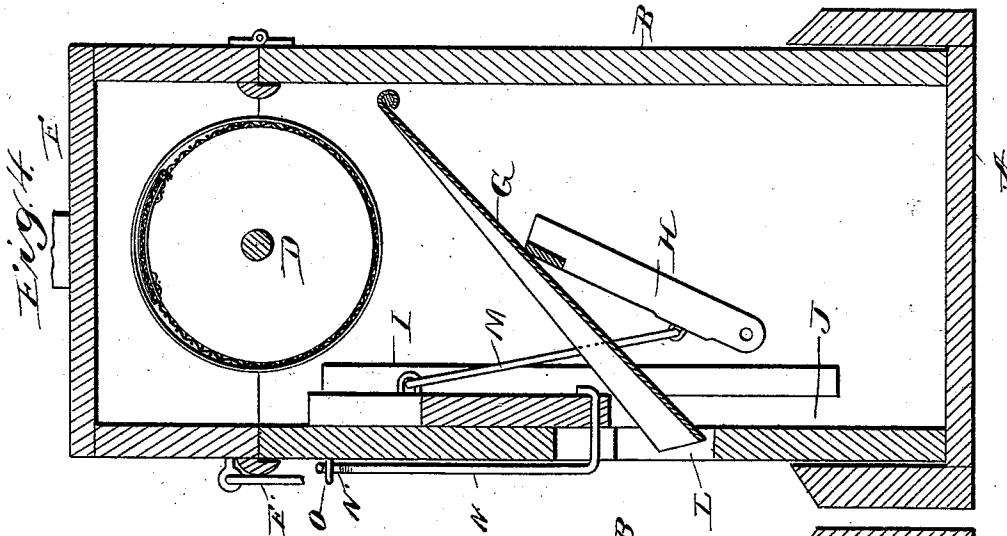
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2 Sheets—Sheet 2.

F. MAULL.
REVOLUBLE ASH SIFTER.

No. 514,764.

Patented Feb. 13, 1894.



Witnesses
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UNITED STATES PATENT OFFICE.

FERDINAND MAULL, OF NEWARK, NEW JERSEY.

REVOLUBLE ASH-SIFTER.

SPECIFICATION forming part of Letters Patent No. 514,764, dated February 13, 1894.

Application filed July 31, 1893. Serial No. 481,993. (No model.)

To all whom it may concern:

Be it known that I, FERDINAND MAULL, of Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Revolvable Ash-Sifters; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to an improved revolvable ash sifter, and the object of the same is to provide a sifting mechanism entirely inclosed by a casing, so that the operation of sifting ashes may be accomplished indoors without creating any dust.

A further object of my invention is to provide an improved chute and operating mechanism for conveying the cleaned coal and cinders from the screen to a receptacle without the casing and entirely removed from the waste and ashes.

Referring to the accompanying drawings, Figure 1, is a front elevation of my improved sifter. Fig. 2, is a similar view, the chute being in position for passing the coal from the screen. Fig. 3, is a vertical cross sectional view of Fig. 1. Fig. 4, is a corresponding view of Fig. 2. Fig. 5, is a sectional plan view, on line 5-5, of Fig. 1.

A designates a box shaped base, and adapted to fit snugly therein at its lower end is the sifter casing B secured to the base sides by hooks C, as shown.

D is a rotary sifter revolvable in the ordinary manner upon the upper end of casing B and provided with the forwardly sliding door E through which the coal is inserted and taken out.

F is a hinged cover fitting tightly over the sieve and upper end of casing B which is secured to the latter at its forward side by hook F'.

Journalled at its upper end in the rear side of the casing is the swinging chute G, which depends in the yoke H, which latter is pivoted at its ends to the casing sides adjacent the front wall, as shown. Between the bail ends and the said front wall are the vertical strips

I forming ways J, in which moves the sliding door K, which serves to close the opening L in the front side of the sifter frame. The opposite sides of the door are connected to the arms of bail H, by rods M, so that when the door is elevated, the bail will also be elevated upon its pivot and the rear side of the latter turning upward and forward in the arc of a circle will raise the chute G across the casing with its free end projected through the opening L, as shown in Figs. 2 and 4.

The door is elevated by means of rod N upon the outer side of the casing having upon its upper end loop N', which at its greatest height is adapted to fit over staple O and secured thereon by pin O', thus holding the door securely and positively opened or raised with the chute end projected through the opening as before described.

In operation the material to be sifted is placed within the screen and the casing entirely closed after which the former is revolved the desired extent dropping the dust and small ashes in base portion A, as will be readily understood. The door is then raised elevating the chute in the manner above described, after which the sliding door of the sifter is opened and the contents of the latter emptied upon the chute which guides it to a pail or other receptacle without the receptacle. Thus it will be seen that a most complete sifting device is provided entirely inclosed, so that no dust may escape.

The upper end of the sifter is provided with a handle P, so that the same may be conveniently carried from place to place.

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

1. An improved ash sifter comprising a sieve, a chute pivoted to one side of the sieve and adapted to swing across beneath the same, a bail pivoted to swing in the arc of a circle against which the lower portion of the chute bears, and a means for swinging the said bail, substantially as shown and described.

2. An improved ash sifter comprising a sieve, a chute pivoted to one side thereof and adapted to swing across beneath the same, a swingingsupport against which the lower end of the chute bears, and a vertically sliding

door to which the said support is connected, substantially as shown and described.

3. An improved ash sifter comprising a sieve, a chute pivoted to one side thereof, a casing having an opening, a swinging support for the lower free portion of the chute, and a sliding door for the casing opening and a connection between the door and the said swinging support, whereby when the door is elevated the lower end of the chute will be projected through the opening, substantially as shown and described.

4. An improved sifter comprising a casing having a recessed side, a sieve in the casing, a chute pivoted in the rear portion of the casing, a bail pivoted to opposite sides of the casing through which the chute depends, a sliding door for the casing opening, and rods

connecting the said door with the bail, substantially as shown and described.

5. An improved sifter comprising a casing having a recessed side, a sieve in the casing, a chute, a sliding door for the casing opening, a mechanism operated by the door for raising the chute across the casing, a rod projecting upward from the door for elevating the latter, and a means for securing its upper end to the casing, substantially as shown and described.

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

FERDINAND MAULL.

Witnesses:

GEORGE C. BRANDLEY,
GUSTAV FERD MAULL.