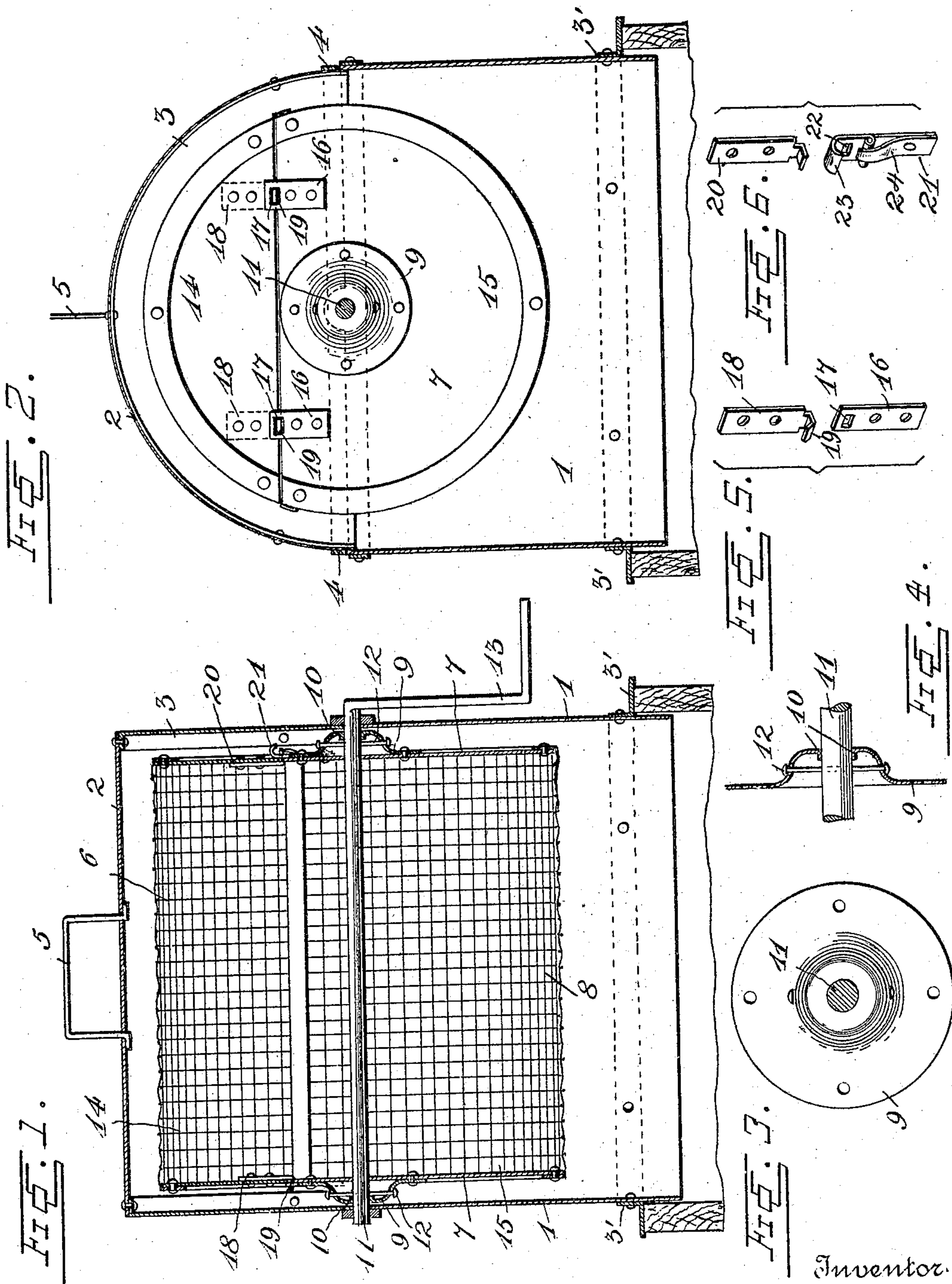


No. 798,144.

PATENTED AUG. 29, 1905.

E. McCauley.
ASH SIFTER.

APPLICATION FILED MAR. 6, 1905.



Witnesses

C. H. Griesbauer
C. H. Griesbauer

Inventor.
Etta McCauley
by A. B. Wilson
Attorney

UNITED STATES PATENT OFFICE.

ETTA McCAULEY, OF NEWPORT NEWS, VIRGINIA.

ASH-SIFTER.

No. 798,144.

Specification of Letters Patent.

Patented Aug. 29, 1905.

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To all whom it may concern:

Be it known that I, ETTA McCAULEY, a citizen of the United States, residing at Newport News, in the county of Warwick and State of Virginia, have invented certain new and useful Improvements in Ash-Sifters; and I do 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 appertains to make and use the same.

This invention relates to ash-sifters; and one of the principal objects of the same is to provide a device of comparatively simple construction which shall be strong, durable, and efficient and which may be manufactured at slight cost.

Another object is to provide an ash-sifter which will effectually prevent the dust and ashes from flying about during the sifting operation.

These and other objects are attained by means of the construction illustrated in the accompanying drawings, in which—

Figure 1 is a central vertical longitudinal section of an ash-sifter made in accordance with my invention. Fig. 2 is an end elevation of the same with the end of the casing removed. Fig. 3 is a face view of one of the hubs for the shaft. Fig. 4 is a sectional view of the same. Fig. 5 is a perspective view of one of the catches, and Fig. 6 is a similar view of another catch which may be used for holding the cover of the rotary sieve in place.

Referring to the drawings for a more particular description of the invention, the numeral 1 designates the ends of the casing, and 2 is the top or cover which forms the casing proper.

As shown in the drawings, the ends 1 and the cover 2 are of sheet metal, said parts being connected by rivets and forming a casing having a removable rounded upper end 3 and a lower open end designed to be placed within a box or barrel and supported above the same by means of the angle-iron flange 3. The curved upper portion 3 of the casing is provided with a flange 4 to fit the lower portion of said casing and to permit said upper portion to be removed by means of a handle 5.

Mounted to be revolved within this casing is a circular sieve 6. This sieve comprises the heads 7, to which the wire-netting 8 is secured and the hubs 9 secured to the heads 8

and provided with flanged bearings 10 for the shaft 11, said shaft passing through the casing and through the sieve 6 and being journaled in suitable openings in the ends of the casing.

To hold the shaft 11 in connection with the hubs 9, a pin 12 is passed through the hub and through an opening extending through the shaft. A crank 13 is formed on or secured to the shaft 11. The upper part 14 of the sieve is removable from the lower portion 15.

Secured to one of the heads 7 at opposite sides of the shaft 11 is a catch-plate 16, each provided with a slot 17, and engaging each of said catch-plates is a hooked member 18, secured to the upper part 14 of the sieve and provided with upwardly-bent hooks 19. At the opposite end of the sieve a pair of spring-catches are provided, said catches each consisting of an L-shaped plate 20, secured to the upper part 14 of the sieve, and a spring-catch 21, secured to the lower portion 15 of the sieve. The spring-catch 21 consists of a plate provided with a slot 22 and a bent end 23, said plate being connected by a hinge-joint to the other member 21 of the catch. A spring 24 is secured to the member 21, and the end of said spring bears upon the hinge-joint with sufficient force to hold the parts in engagement, the bent end portion 23 serving as a finger-hold to disengage the parts.

The operation of my invention will be understood from the foregoing and may be briefly described as follows: The upper portion 3 of the casing is removed by means of the handle 5, and the upper part of the sieve is removed to permit the ashes and cinders to be placed within the sieve, when said covers are replaced and the crank is turned to rotate said sieve and separate the cinders from the ashes, the casing preventing the dust from flying about.

Various changes in the form, proportion, and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention.

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

A rotary ash-sifter comprising a casing having a removable cover, a rotary sieve in said casing, a shaft passing through said sieve, a sheet-metal hub secured to each end of the

sieve, said hubs having flanged bearings for
and being detachably connected to said shaft
by means of a pin passing through the hub
and shaft, slotted catches for connecting the
5 cover of said sieve to the body portion thereof
at one end, and spring-catches at the opposite
end, substantially as described.

In testimony whereof I have hereunto set
my hand in presence of two subscribing wit-
nesses.

ETTA McCAULEY.

Witnesses:

SUE MILLER,

ROBBIE GANNOWAY.