

No. 798,636.

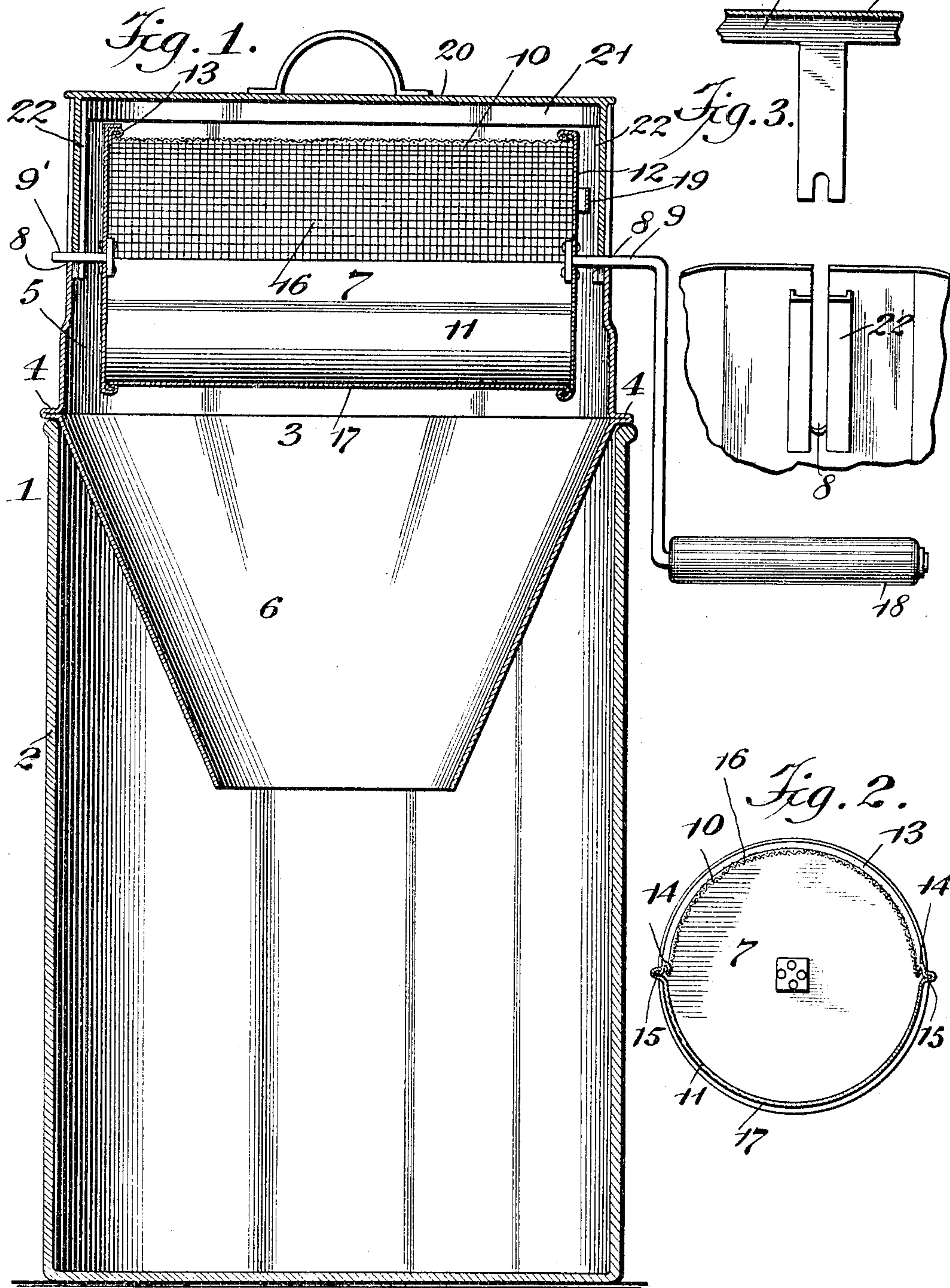
PATENTED SEPT. 5, 1905.

E. W. STOKIEN.

ASH SIFTER.

APPLICATION FILED APR. 2, 1904.

2 SHEETS—SHEET 1.



Witnesses
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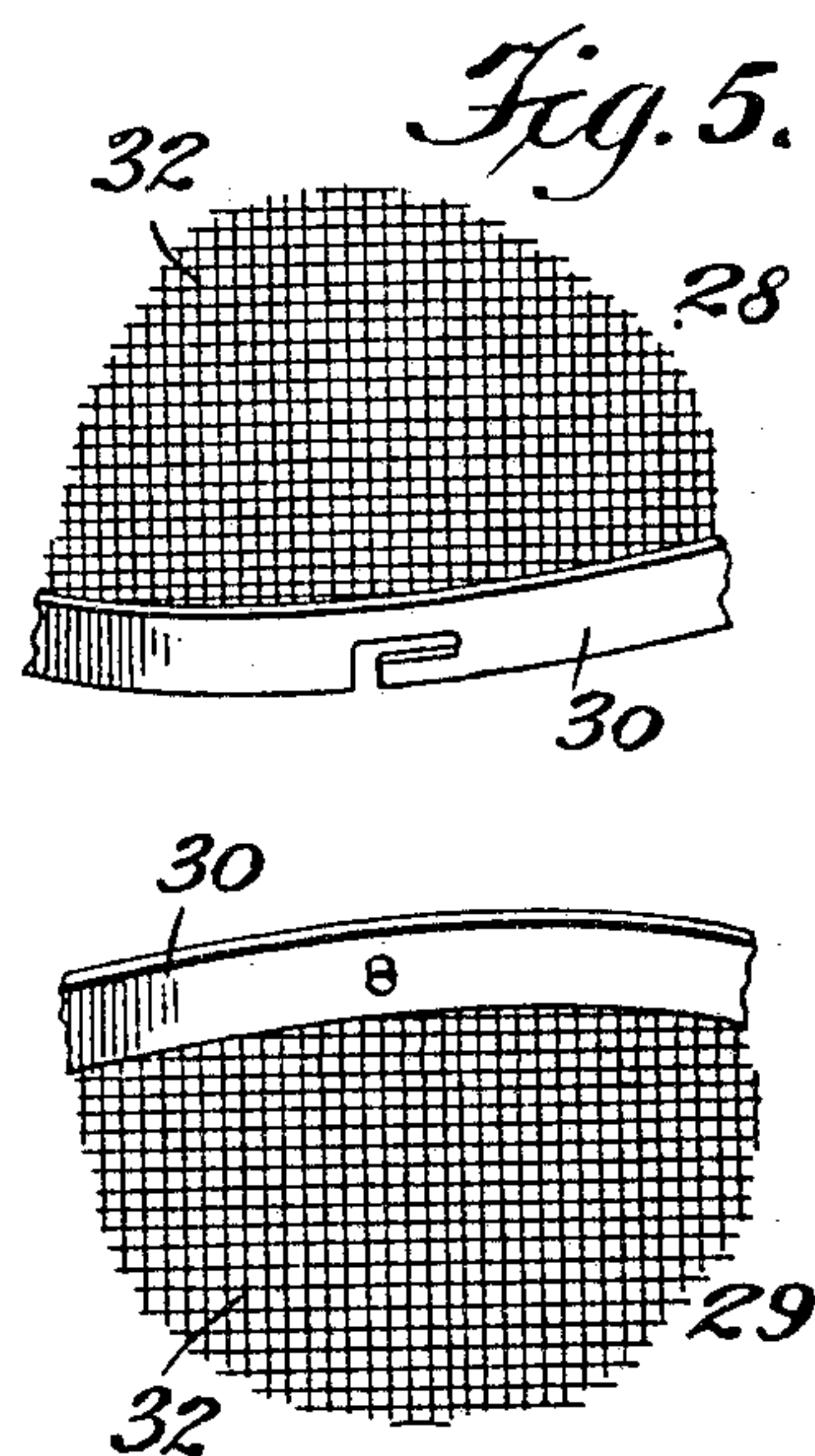
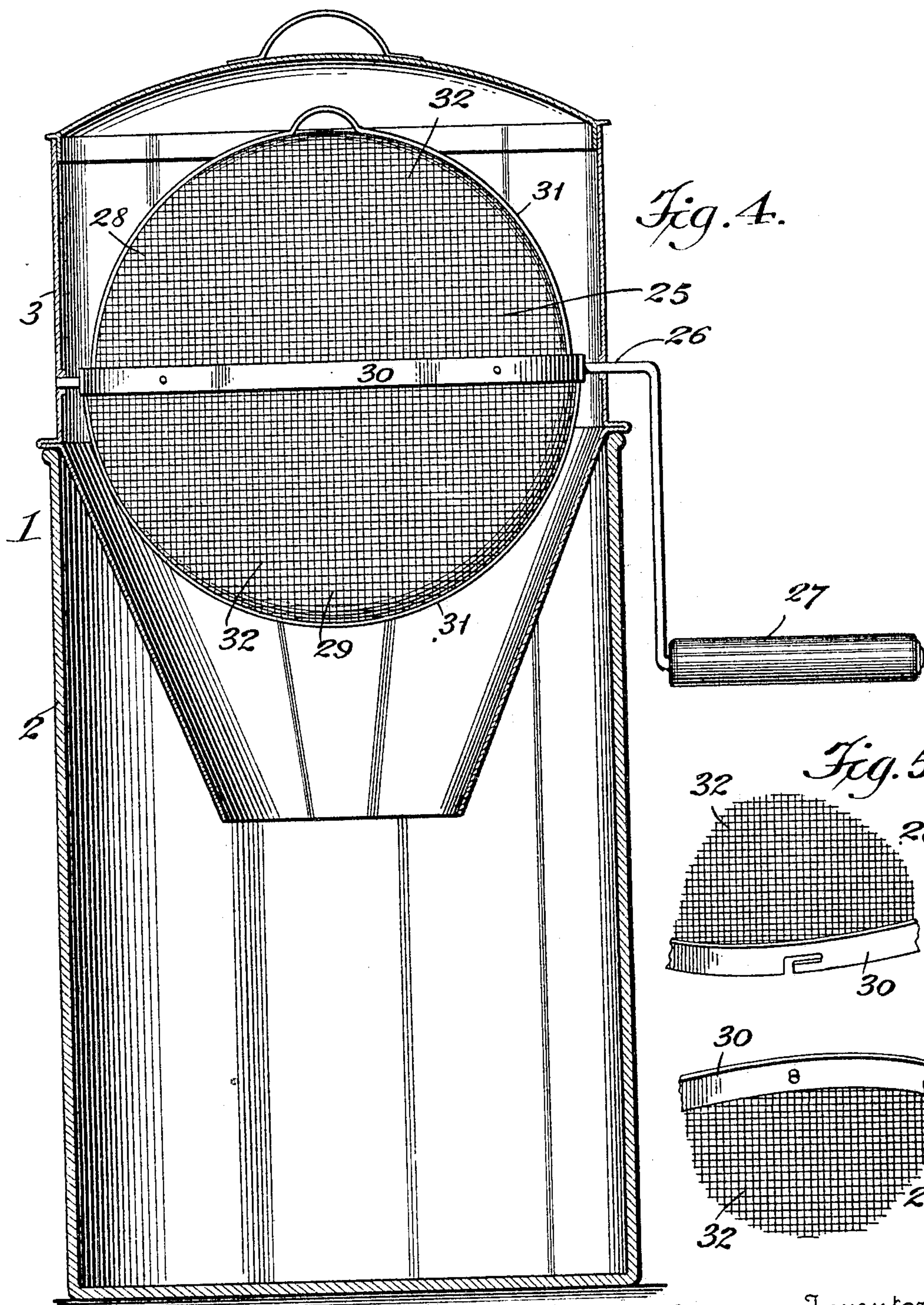
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2 SHEETS—SHEET 2.



Witnesses
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B. H. H. H.

Inventor
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UNITED STATES PATENT OFFICE.

EUGENE W. STOKIEN, OF NEW YORK, N. Y.

ASH-SIFTER.

No. 798,636.

Specification of Letters Patent.

Patented Sept. 5, 1905.

Application filed April 2, 1904. Serial No. 201,254.

To all whom it may concern:

Be it known that I, EUGENE W. STOKIEN, a citizen of the United States, and a resident of New York, in the county and State of New York, have invented certain new and useful Improvements in Ash-Sifters, of which the following is a specification.

My invention relates to ash-sifters.

It has for its object to provide an ash-sifter comprising upper and lower separable sections, the upper section having a rotary sifter therein adapted to receive the ashes and partially-burned coal and separate the same so as to retain the partially-burned coal therein and the lower section adapted to receive the ashes.

It has for a further object to provide a device of the character set forth embodying advantages in point of perfect operation, general utility, strength, and inexpensiveness.

In the drawings, Figure 1 is a vertical sectional view; Fig. 2, a transverse vertical sectional view; Fig. 3, a segmentary view of a portion of the cover and receptacle; Fig. 4, a vertical sectional view of a modification; Fig. 5, a segmentary view of the spherical sifter.

Corresponding parts in all the figures are denoted by the same reference characters.

Referring to the drawings, 1 designates the ash-sifter as a whole, which comprises a receptacle having a lower section 2, closed at the bottom and open at the top and constituting a bucket to receive the ashes, and an upper section 3, having a flange 4 for supporting it on top of the lower section, said upper section being open at both ends and comprising a part 5 above the flange 4, of the same diameter throughout its length and having slots, the bottoms 8 forming one half of bearings, and a conical part 6 below said flange.

A cylindrical rotary sifter 7 is rotatably mounted in the bearings 8 in the upper end of the section 3 on journals 9 9', projecting from its ends, and comprises semicylindrical slidable sieve and scoop members 10 and 11, respectively, the member 10, constituting the sieve member, comprising a semicircular plate 12 at one end, an arched bar 13 at the other end, side bars 14, connecting said parts and provided with laterally-projecting flanges 15, and a semicylindrical covering 16, of wire mesh, the end and side edges thereof being seamed and soldered to the edges of said arched bar, circular end plate, and side bars, and the member 11, constituting the scoop member, comprising a circular plate at one end, the upper part adapted to close the open end

of the sieve member when the members are slid together, a semicircular plate at the other end, and a semicylindrical solid covering 17, its ends seamed and soldered to the end plates 12 and 18, and its longitudinal edges turned inwardly and forming grooves or guides to receive the flanges of the sieve member.

For the purpose of affording convenient means for rotating the sifter the journal 9 is provided with a crank-handle 18, and to afford means for sliding the members together and apart a handle 19 is secured to the plate at one end of the sieve member.

A cover 20 is provided for closing the top of the upper section 3 of the ash-sifter and has a circular flange 21, adapted to fit within said section and provided with depending plates having slots the upper ends of which form the other half of the bearings for the journals 9 9' and adapted to slide into guides 22 on the inner surface of the upper section on each side of the slots therein for the purpose of closing said slots. Thus it will be seen that when the parts of the ash-sifter are assembled in operative position it will be impossible for any ash-dust to escape therefrom.

Referring now to the modification Figs. 3 and 4, this form of my invention only differs from that of the form shown by Figs. 1 and 2 in certain details of construction of the sifter, in the omission of the journal-bearings running to the top of the upper section and the plates depending from the cover. The rotary sifter 25, (shown by Figs. 3 and 4,) which is spherical in form, is supported in the upper section 3 on a shaft 26, one end of which is provided with a crank-handle 27 and comprises semispherical portions 28 and 29, each comprising a ring 30, an arched bar 31, and a wire-mesh covering 32, the edges thereof seamed and soldered to the ring, and one of the rings is provided with pins adapted to engage bayonet-slots in the other ring to lock the portions together.

The operation is as follows: The members of the sifter are separated, the ashes and unburned coal placed therein, the sections again placed together, and the crank-handle turned, whereupon the ashes will be sifted through the wire-mesh covering and fall through the open lower end of the upper section 3 into the lower section 2. The upper section 3 is then separated from the lower section 2, the ashes dumped out, and the sections again placed together, after which the members of the sifter are separated and that portion con-

taining the coal reversed, dumping the coal out into the section 3 and through its lower open end into the lower section 2, and when it is desired to use the unburned coal the lower section 2 is again separated from the upper section and the coal dumped therefrom onto the fire.

I do not desire to be understood as limiting myself to the details of construction and arrangement as herein described and illustrated, as it is manifest that variations and modifications may be made in the features of construction and arrangement in the adaption of the device to various conditions of use without departing from the spirit and scope of my invention and improvements. I therefore reserve the right to all such variation and modification as properly fall within the scope of my invention and the terms of the following claim.

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

In an article of the class described, a receptacle having a closed bottom, a section resting thereon which is open at both its top and bottom, a rotary sifter removably mounted and journaled in said section, and guides in said section adjacent to said journals, said sifter being composed of two parts one of which is imperforate and provided with a circular disk at one end and a semicircular disk at the other, and the other part of which is composed of a perforated screen held between a band at one end and a semicircular disk at the other, each of said parts being provided with interlocking means, and a cover having depending plates which are adapted to engage said guides and form a part of said journals.

In testimony whereof I have signed my name in the presence of the subscribing witnesses.

EUGENE W. STOKIEN.

Witnesses:

FANCHER NICOLL,
B. MOLITOR.