

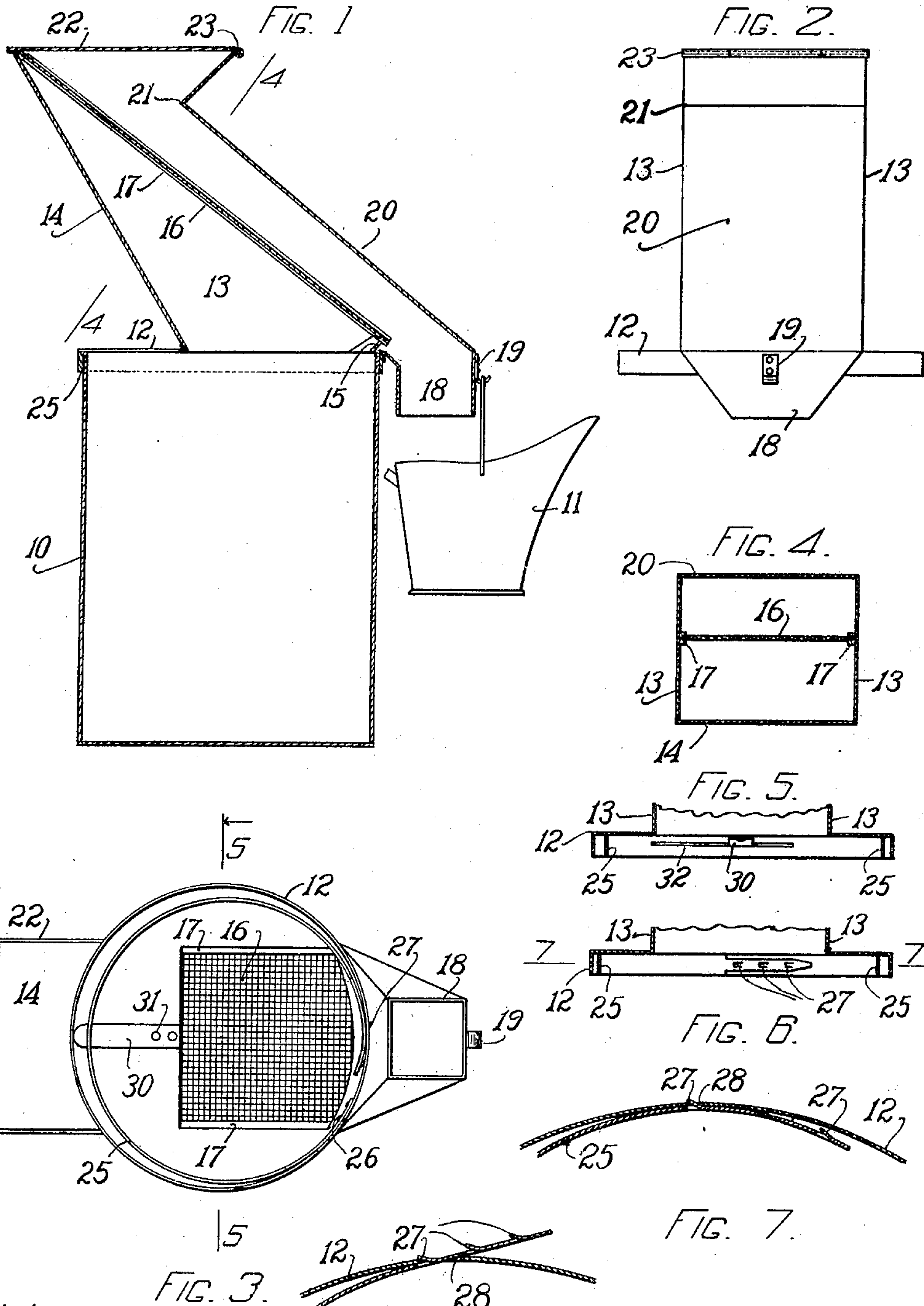
No. 887,031.

PATENTED MAY 5, 1908.

G. W. CHILD.

ASH SIFTER.

APPLICATION FILED JAN. 7, 1907.



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ASH-SIFTER.

No. 887,031.

Specification of Letters Patent.

Patented May 5, 1908.

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To all whom it may concern:

Be it known that I, GEORGE W. CHILD, a citizen of the United States, and residing at Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Ash-Sifters, of which the following is a specification, reference being had therein to the accompanying drawing.

10 My invention relates to separating devices wherein the screen or separator is a passive agent, and the process of separation becomes automatic.

15 The particular application of my invention is to the screening of ashes, where it is necessary to provide means for retaining the ash dust and insuring the entrance to the proper receptacle.

20 The main features are the immovable screen which is at the same time interchangeable, and the adaptation, to different sized receptacles, of the cover to which it is attached.

25 The invention consists in the combination of elements and in certain parts of construction entailed in the combination of said elements to obtain the desired result.

30 A full understanding of the invention can best be given by a detailed description of a preferred construction embodying the various features of the invention, and such a description will now be given in connection with the accompanying drawings, and I attain my object by the mechanism there illustrated showing such preferred construction, and the features forming the invention will then be specifically pointed out in the claims.

35 In the drawings, which form part of this specification:—Figure 1 is a central vertical section of my device in place upon an ordinary ash barrel. Fig. 2 is a front elevation of the same without the barrel. Fig. 3 is a bottom plan view. Fig. 4 is a section on line 4—4 of Fig. 1. Fig. 5 is a partial section on line 5—5 of Fig. 3, looking as the arrow points. Fig. 6 is a similar section looking the opposite way. Fig. 7 is a partial section, enlarged, on line 7—7 of Fig. 6. Fig. 8 is a similar view showing an alternative method of adjusting the cover.

40 Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

55 As shown in the drawings, the barrel 10

(Fig. 1) forms the receptacle for the ashes and bucket 11 that for the siftings.

My separator is preferably made of non-corroding sheet metal and is integral with the cover 12, which fits over the mouth of 60 barrel 10.

The vertical sides 13, the inclined back 14 and front lip 15 inclose an opening in cover 12 through which the ashes enter barrel 10. This opening is indirectly covered by an inclined screen 16 which is formed to slidably fit in U-shaped guides 17 secured to sides 13. The angle of inclination of screen 16 is such that siftings will by gravity alone pass through spout 18 into bucket 11, which may 70 be conveniently hung on hook 19, secured to spout 18.

The front wall 20 is turned forward at 21 to form a hopper-like mouth into which the material to be sifted is emptied, and this forward inclination acts as a chute to direct the material perpendicularly to screen 16, thus aiding materially the sifting operation which, as is clearly shown in Fig. 1, is entirely automatic. 80

Cover 22, hinged at 23 to the upper portion of wall 20 serves to keep in the ash dust. In changing screens, it is simply necessary to open cover 22 and withdraw the one and insert another. 85

To adapt cover 12 to different sized barrels, I secure one end of a flexible spring band 25 to cover 12 at 26, the free end of said band being coiled within cover 12 and provided with a series of projecting lips 27 punched out from the body of said band. These lips 27 are adapted to engage in turn with a slot 28 in the rim of cover 12. As will be noticed in Fig. 3 this band is shown in adjusted position for a barrel smaller than 10. 90 95

A spring tongue 30 secured at 31 to cover 12 projects through slot 32 in band 25 and serves to hold it in place. When the largest possible barrel is used, it will be noticed that band 25, not having its free end confined, will fit snugly against the rim of cover 12, which is made correspondingly larger than the mouth of the barrel, see Fig. 1. 100

In Fig. 8 I show an alternative method of securing the free end of band 25 by passing the reduced portion, shown in Fig. 6, through slot 28. Either method is possible without making any change in the parts. 105

It is obvious that screens of different sized mesh may be used so that a screen for fur- 110

nace ashes could be interchangeable in the ash sifter with a screen for stove ashes, and also obvious that the screen 16 could be rigidly secured in place without departing from the spirit of my invention.

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

1. An ash sifter consisting of a casing, a screen, parallel inclined run-ways within the casing adapted to receive the screen, a cover made integral with the lower portion of the casing adapted to be placed upon a suitable receptacle for containing the sifted ashes and a tightening band for adjusting the cover.

2. An ash sifter consisting of a casing, a hopper-mouth for the top of the casing, a hinged cover for the hopper-mouth, parallel U-shaped inclined run-ways, a screen carried by the run-ways, a cover made integral with the lower portion of the casing adapted to be placed upon a suitable receptacle for containing the sifted ashes and a tightening band for tightly adjusting the cover upon the receptacle.

3. An ash sifter having a cover provided with a rim and adapted to be placed upon a

suitable receptacle for containing the ashes and a flexible spring band coiled within the rim of the cover provided with a series of projecting lips adapted to be engaged in turn with a slot in the rim of the cover.

4. An ash sifter provided with a screen, parallel U-shaped inclined run-ways adapted to receive the screen, a V-shaped hopper above the screen, a hinged cover for the hopper, a cover provided with a rim and adapted to be placed upon a suitable receptacle for containing the ashes, a flexible spring band coiled within the rim of the cover provided with a series of projecting lips adapted to be engaged in turn with a slot in the rim of the cover and a spring tongue secured to the cover and projecting through a slot in the band and holding it in place, substantially as shown and described.

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

GEORGE W. CHILD.

Witnesses:

CHARLES F. A. SMITH,
FRANCIS E. SMITH.