

No. 855,335.

PATENTED MAY 28, 1907.

H. PLATT.
ASH SCREENER.

APPLICATION FILED OCT. 11, 1906.

Fig. 1.

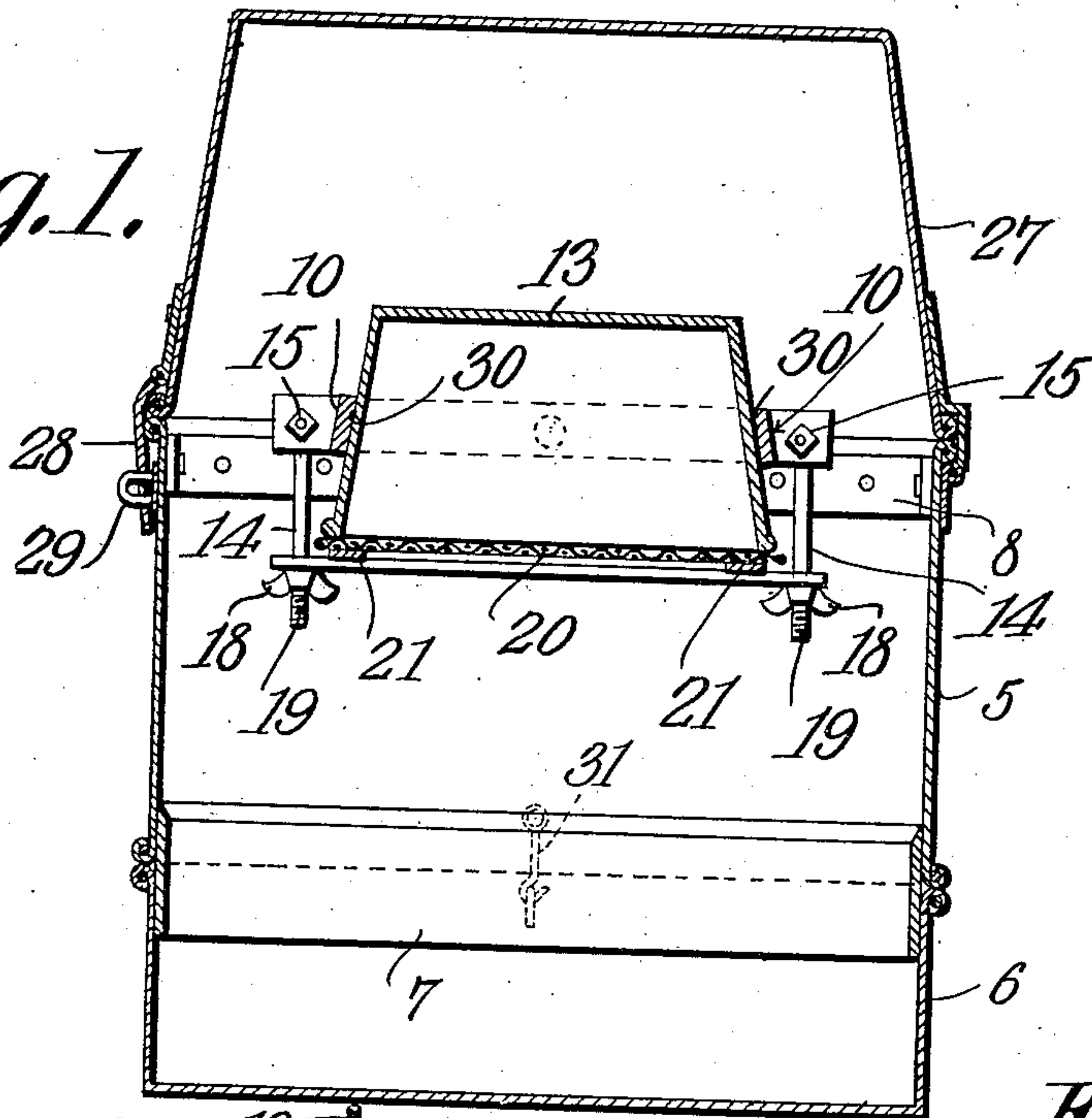


Fig. 3.

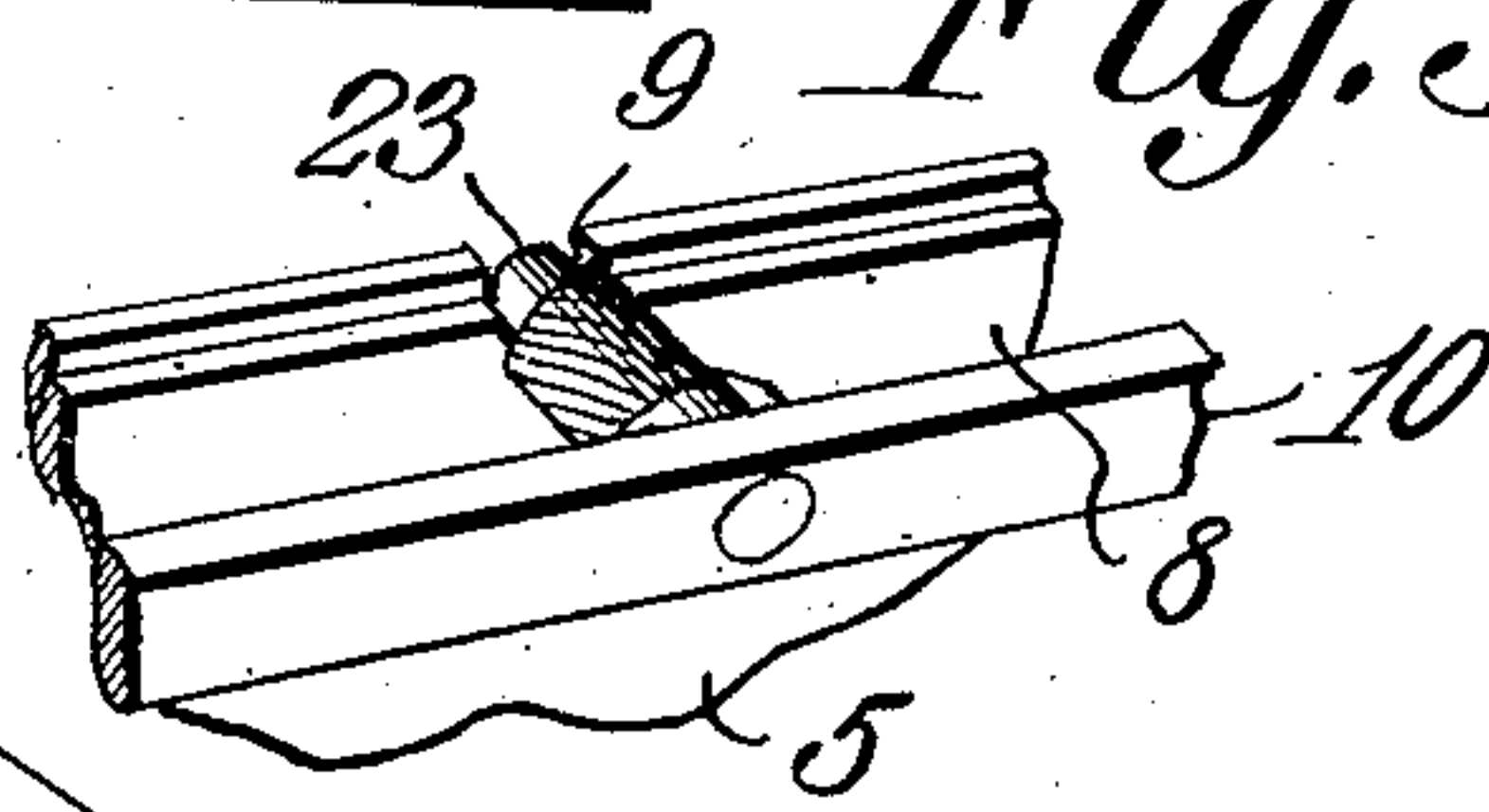
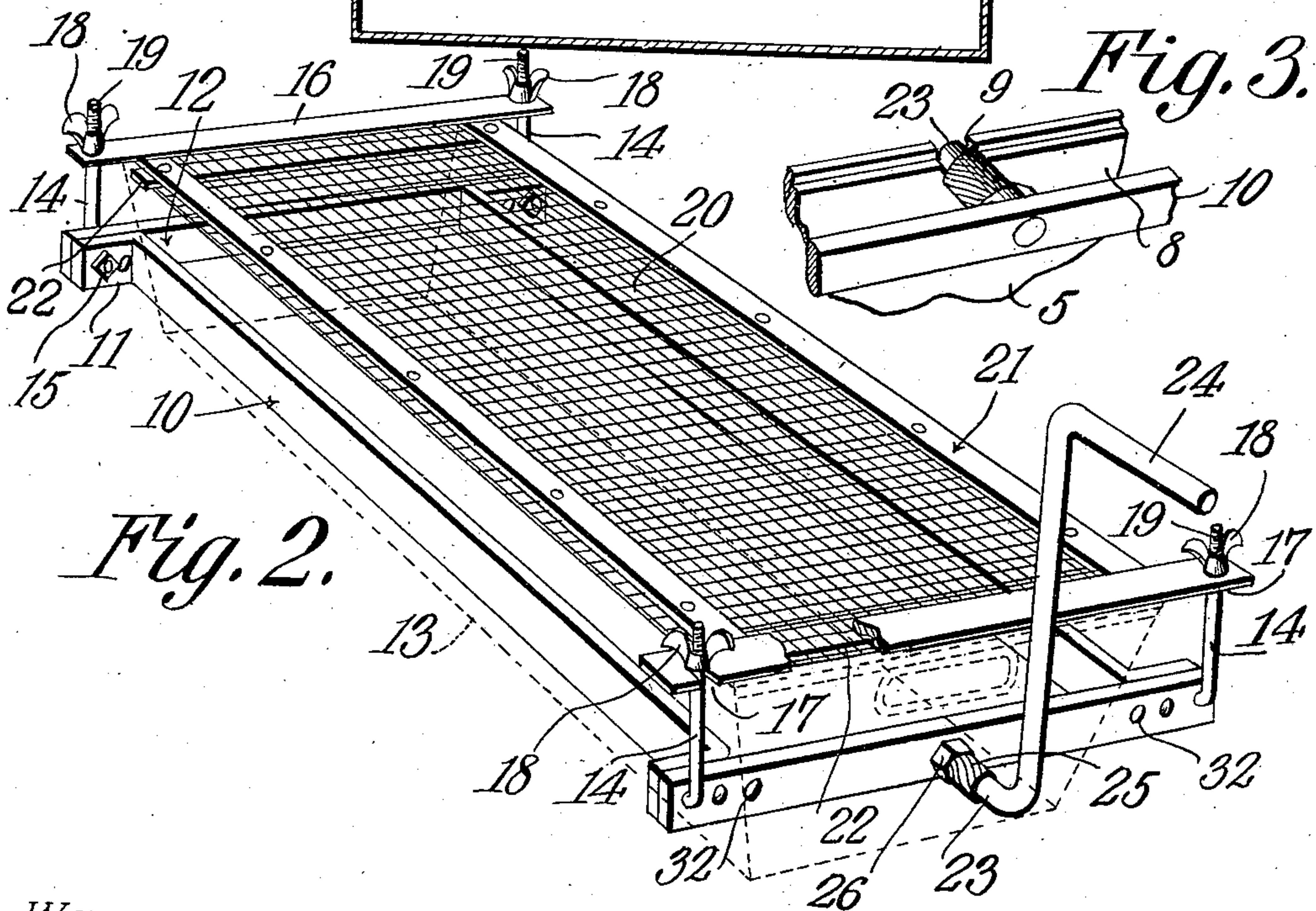


Fig. 2.



WITNESSES:

E. J. Stewart
L. H. McKee

Henry Platt, INVENTOR

By *Chas. Snow & Co.*
ATTORNEYS

UNITED STATES PATENT OFFICE.

HENRY PLATT, OF HAZLETON, PENNSYLVANIA.

ASH-SCREENER.

No. 855,335.

Specification of Letters Patent.

Patented May 28, 1907.

Application filed October 11, 1906. Serial No. 338,455.

To all whom it may concern:

Be it known that I, HENRY PLATT, a citizen of the United States, residing at Hazleton, in the county of Luzerne and State of Pennsylvania, have invented a new and useful Ash-Screener, of which the following is a specification.

This invention relates to ash-sifters and has for its object to provide a comparatively simple and inexpensive device of this character by means of which a pan of ashes may be removed from a stove or furnace and conveniently sifted without the necessity of dumping the ashes into the usual screen or sieve.

A further object of the invention is to provide a receptacle having a supporting frame mounted for rotation therein and adapted to receive the pan-containing the ashes to be sifted, said receptacle being provided with a cover or closure thereby to prevent the escape of dust during the sifting operation.

A further object is to provide improved means for locking the ash-containing pan in position on the supporting frame and means for mounting the frame for rotation in the outer receptacle or casing.

A still further object of the invention is to generally improve this class of devices so as to increase their utility, durability and efficiency.

With these and other objects in view the invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, and illustrated in the accompanying drawings, it being understood that various changes in form, proportions and minor details of construction may be resorted to within the scope of the appended claims.

In the accompanying drawings forming a part of this specification: Figure 1 is a transverse sectional view of the ash-sieve constructed in accordance with my invention. Fig. 2 is a perspective view of the supporting frame and screen detached, the ash-pan being shown in dotted lines in position on the supporting frame. Fig. 3 is a detail perspective view of one of the bearings of the supporting frame.

Similar numerals of reference indicate corresponding parts in all of the figures of the drawings.

The improved device consists of a substantially rectangular receptacle or casing preferably formed in two sections 5 and 6,

the upper receptacle 5 being provided with a depending flange 7 adapted to engage the interior walls of the lower section 6 for supporting said sections in alinement with each other. The upper edge of the section 5 is provided with a reinforcing band 8, and formed in said band and in the adjacent walls of the section 5 are slots or recesses 9 which constitute bearings for a pan supporting frame 10. The frame 10 consists of spaced longitudinal bars having their opposite ends off-set, as indicated at 11 to form lateral extensions, said extensions being connected by transverse bars 12 thus forming a support for the ash-pan 13.

Secured to the opposite ends of the end-bars 12 are vertically disposed pins 14 the fixed ends of which are extended laterally through the bars 12 and the adjacent off-set portions 11 of the bar 10 and are provided with terminal threads for the reception of clamping nuts 15 whereby the pins are pivotally supported in a vertical position on the supporting frame.

Mounted for rotation on one of the pins 14 at each end of the supporting frame 10 is a clamping member or bar 16 the opposite end of which is provided with a transverse slot or recess 17 adapted to receive the adjacent pin, there being wing nuts 18 engaging the terminal threads 19 of the locking pins for clamping the bars 16 in engagement with the screen or sieve 20. The screen or sieve 20 is preferably rectangular in shape and is reinforced and strengthened by longitudinal bars 21 to which are riveted or otherwise secured transverse bars 22, said bars being arranged on opposite sides of the screen 20 so as to form a marginal reinforcement for the same. The screen 20 is detachable and adapted to rest on the upper edge of the pan 13 thus forming a closure for the same.

Secured to the end bars 12 of the supporting frame are laterally extending trunnions 23 which engage the adjacent recesses or bearings 9, one of said trunnions being extended upwardly and laterally to form a terminal crank or handle 24 by means of which the supporting frame carrying the ash-pan 13 may be conveniently rotated or oscillated within the outer receptacle or casing. The supporting frame 10 is spaced from the adjacent end walls of the casing or housing by means of suitable collars 25, there being clamping nuts 26 interposed between the collars and the side bars 12 for holding the trun-

nions in position on said supporting frame. The upper section 5 of the outer receptacle or casing is provided with a pivoted cover or closure 27 having a depending hasp 28 for engagement with a staple or other suitable fastening device 29 thereby to prevent the escape of dust during the sifting operation.

Attention is called to the fact that the longitudinal side bars of the supporting frame 10 are preferably arranged at an angle, as indicated at 30 thereby to conform to the inclination of the side bars of ash-pan 13 so that when the clamping members are adjusted the pan 13 will be forced downwardly between the side bars of the supporting frame and thus be effectually locked against accidental displacement.

In operation the ash-pan is removed from the stove or furnace and placed in position on the supporting frame after which the screen 20 is extended across the mouth of the pan and the clamping bars 16 swung laterally into engagement with the locking pins, the bolts of the clamping nuts 18 being then adjusted on the pins 14 thereby to clamp the screen 20 in engagement with the pan, and the latter in engagement with the supporting frame. The supporting frame containing the ash-pan 13 is then partially rotated until the screen 20 is disposed parallel with the bottom wall of the lower section 5, as best shown in Fig. 1 of the drawings after which the handle 24 is moved back and forth so as to oscillate the pan and thus effectually sift the ashes. After the sifting operation is completed the supporting frame is again partially rotated so as to expose the screen 20 after which the clamping members are released and the ash-pan 13 removed from the supporting frame and the cinders dumped therefrom so that the pan may be again placed in the stove or furnace. The ashes in the outer receptacle or casing may be removed by releasing the locking hooks 31 and detaching the sections 5 and 6 so that the ashes in the section 6 may be dumped in a barrel or receptacle designed to receive the same. The end bars of the supporting frame 10 are preferably formed with a plurality of openings 32 whereby the side bars may be adjusted laterally so as to accommodate ash-pans of different sizes.

From the foregoing description it will be seen that there is provided an extremely simple, inexpensive and efficient device admirably adapted for the attainment of the ends in view.

Having thus described the invention what is claimed is:

1. A device of the class described comprising a receptacle, a supporting frame arranged within the receptacle and adapted to receive an ash-pan, said frame being provided with

lateral extensions, a screen covering the ash-pan, spaced pins secured to the extensions of the supporting frame and having their free ends threaded, a clamping bar mounted on one of the pins at each end of the frame and provided with a lateral recess adapted to receive the adjacent pin, and nuts threaded on the pins for clamping the bars in engagement with the screen.

2. A device of the class described comprising a casing, a supporting frame arranged within the casing and consisting of spaced longitudinal bars having their opposite ends off-set and connected by cross bars, a pan supported by the frame, pins secured to the off-set portions of the side bars and piercing the adjacent ends of the cross-bars of said frame, a screen covering the pan, clamping bars engaging the screen, and clamping nuts carried by the pins and bearing against the clamping bars for locking the screen in engagement with the pan.

3. A device of the class described comprising a casing, a supporting frame journaled in the casing and consisting of spaced longitudinal bars inclined laterally and having their opposite ends off-set and connected by cross bars, said frame being adapted to support a pan, threaded pins extending through the off-set portions of the longitudinal bars of said frame and piercing the adjacent cross-bars, a screen covering the pan, a clamping bar pivotally mounted on one of the pins at each end of the supporting frame and having its opposite end provided with a lateral slot adapted to receive the adjacent pin, and clamping nuts engaging the threads on the pins for locking the clamping bars in engagement with the screen.

4. A device of the class described comprising a sectional casing, a cover pivotally mounted on one of said sections, a supporting frame arranged within the casing and journaled in the side walls of one of the sections, a pan carried by the supporting frame, a detachable screen covering the pan and having its upper surface reinforced by longitudinal strengthening bars and its opposite surface reinforced by transverse bars, threaded pins carried by the supporting frame, clamping bars mounted on the pins, and nuts engaging the threads on the pins and bearing against the clamping bars for locking the screen in engagement with the pan.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

HENRY PLATT.

Witnesses:

PERCY A. JERMYN,
WM. F. DERR.