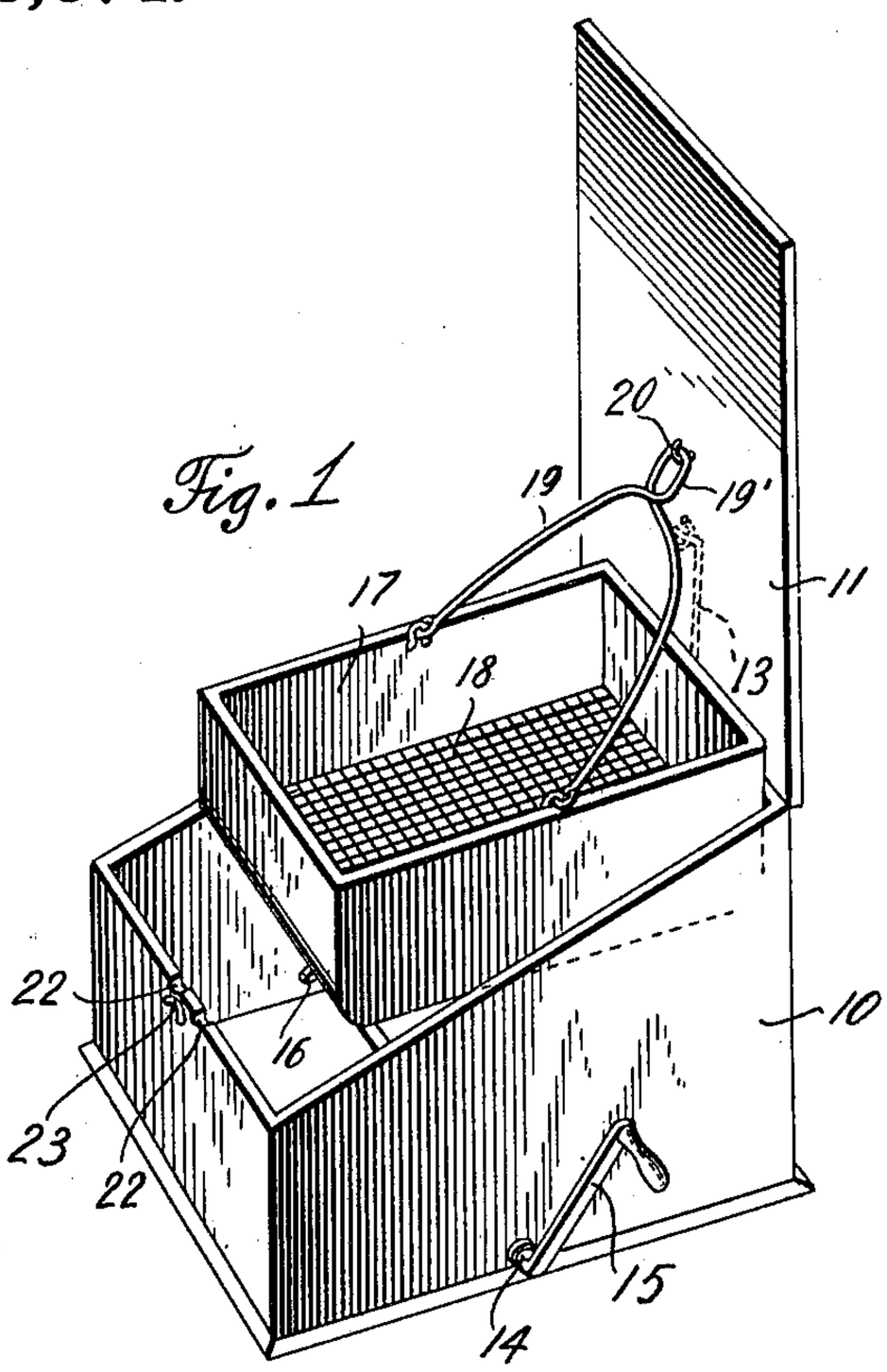
G. W. STUART.

SIEVE.

APPLICATION FILED APR. 9, 1910.

978,674. Patented Dec. 13, 1910.

Fig. 1



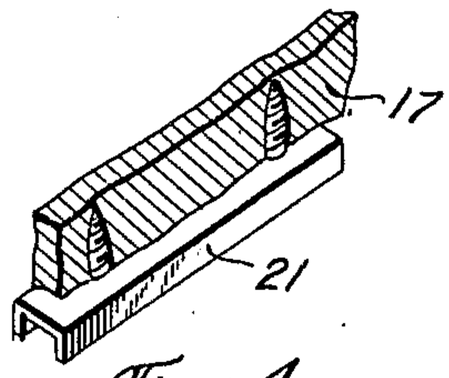


Fig. 4

Fig. 2

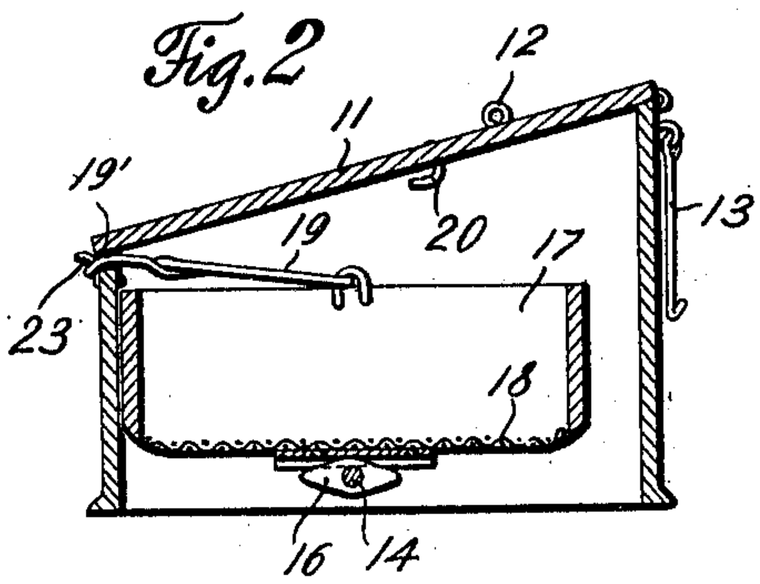
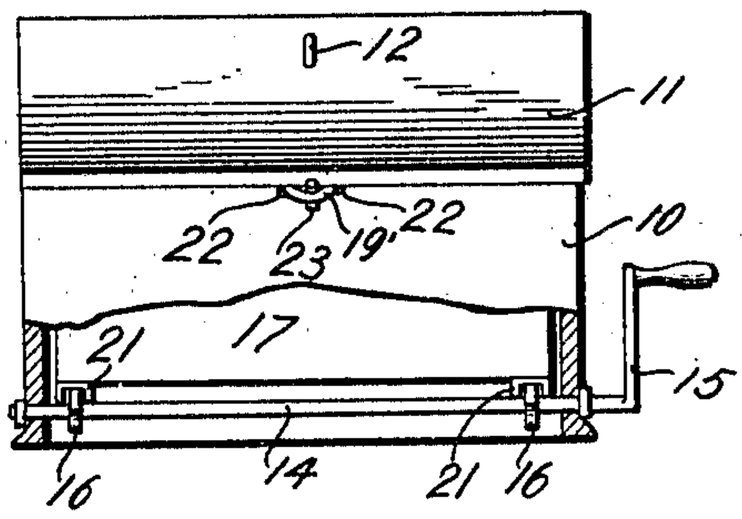


Fig. 3



Witnesses

E. Larson

Charles Gibbon

Inventor

George W. Stuart

By Deeler & Robb

Attorneys

UNITED STATES PATENT OFFICE.

GEORGE W. STUART, OF NEWTOWN, CONNECTICUT.

SIEVE.

978,674. Specification of Letters Patent. **Patented Dec. 13, 1910.**

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To all whom it may concern:

Be it known that I, GEORGE W. STUART, a citizen of the United States, residing at Newtown, in the county of Fairfield and State of Connecticut, have invented certain new and useful Improvements in Sieves, of which the following is a specification.

This invention relates to sifters adapted for use for ashes and the like and is designed to construct a device of this nature wherein the sieve or screen may be elevated upon the raising of the cover of the box or casing.

With the above and other objects in view, this invention consists of the construction, combination and arrangement of parts all as hereinafter more fully described, claimed and illustrated in the accompanying drawings, wherein:

Figure 1 is a perspective view of a sifter constructed in accordance with the present invention, illustrating the cover in an elevated position; Fig. 2 is a central section thereof; Fig. 3 is a front elevation thereof, parts being broken away; Fig. 4 is a perspective view, illustrating the construction of the guide on the base of the screen and the connection thereof with said screen.

Referring more particularly to the drawings, 10 indicates a casing, said casing being provided with a cover 11, which is adapted to rest on the upper edges of said casing at an angle to the vertical plane, due to the fact that the upper edges of said casing slope to the forward side thereof. An eye 12 is carried by the cover 11 and is adapted to receive a hook 13 pivotally secured to the rear face of said casing, thus retaining the cover in an elevated position when so desired.

A shaft 14 is journaled in the transverse side of the casing and is provided at one extremity with the handle 15, said handle being adapted to rotate said shaft. Adjacent each transverse side of the casing and secured rigidly to the shaft and rotating therewith are the parallelogrammatic members 16 adapted to raise the screen in a manner hereinafter more fully described.

A sieve comprising a casing 17 provided with a screen 18 is adapted to rest in the casing 10 and be operated vertically by the parallelogrammatic member 16. A bail 19 is secured to the oppositely disposed side of the casing 17, the sides of which are convergent and adapted to engage a hook 20 carried on the inner face of the cover 11 and thereby raising the sieve when said cover is elevated. A channel bar 21 is secured to the under edges of the transverse sides of the sieve and provide guides for the members 16, thereby constantly retaining the same in engagement with said sieve.

When the cover is in a lowered position, the bail projects through a pair of orifices 22 in the upper edge of the forward face of the casing 10 and engages a hook 23, thereby securing a pivotal point for said bail. Thus it will be seen that upon rotating the crank, the parallelogrammatic members will raise the sieve about the hook member 23 as a pivot and thereby sift the fine substance or matter through the screen 18, retaining the coarse substance in said screen.

The bail 19 by reason of being provided with a loop 19′ can be engaged at said loop with the hook 23 to hold the sieve in the position shown in Fig. 2. When the sieve is elevated in the manner shown in Fig. 1, considerable space is provided between the front of the sieve and the front of the casing so that clinkers and other foreign particles of matter in the sieve may be readily dropped by the operator through said space into the barrel or the receptacle on which the sieve may be disposed. The above arrangement is especially advantageous in the practical use of the invention.

Having thus described my invention, what is claimed as new is:

In a device of the class described, the combination with a casing, of a cover for said casing, a hook formed on the interior of said casing, a sieve mounted in said casing, said sieve being provided with a bail adapted to engage the hook on said cover and elevate the sieve upon the raising of said cover, and a hook formed in the forward face of said casing adapted to engage said bail when the cover is lowered, thereby locking said sieve in said casing and forming a pivotal point for the same.

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

GEORGE W. STUART.

Witnesses:

ARTHUR T. NETTLETON,

JOSEPH H. NETTLETON.