J. C. SCALES.

Receptacle for Articles to be Screened.

No. 208,338. Patented Sept. 24, 1878.

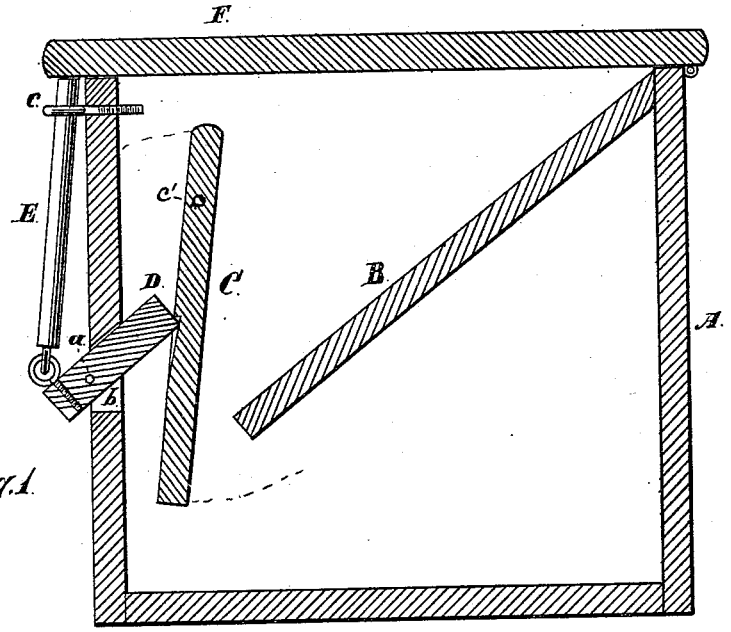

Fig. 1.

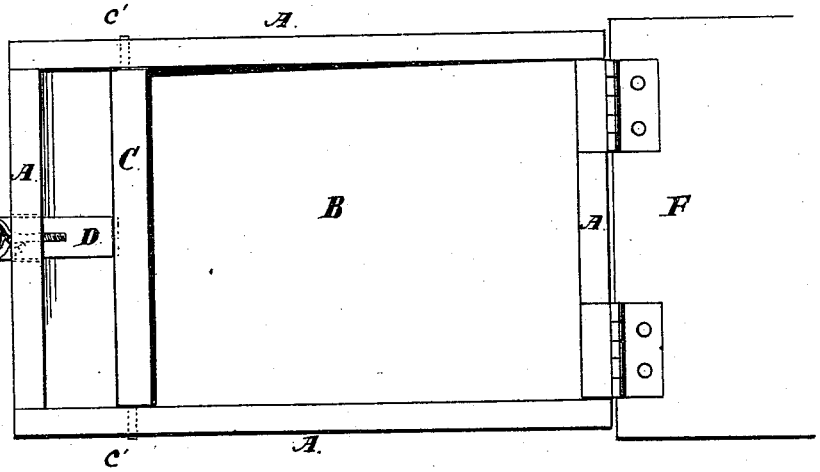

Fig. 2.

Witnesses:

C. W. Bond

H. F. Brans

Inventor.

John C. Scales

UNITED STATES PATENT OFFICE.

JOHN C. SCALES, OF CHICAGO, ILLINOIS.

IMPROVEMENT IN RECEPTACLES FOR ARTICLES TO BE SCREENED.

Specification forming part of Letters Patent No. **208,338**, dated September 24, 1878; application filed August 6, 1878.

To all whom it may concern:

Be it known that I, JOHN C. SCALES, of the city of Chicago, Cook county, State of Illinois, have invented new and useful Improvements in Receptacles for Articles to be Screened, of which the following is a full description, reference being had to the accompanying drawing, in which—

Figure 1 is a longitudinal vertical section; Fig. 2 a top or plan view, with the lid or cover open.

The object of this invention is to provide a receptacle for the reception of articles to be screened or separated, so arranged and constructed as that the article can be deposited therein and operated upon without the liability of the smaller particles or dust to be blown or carried away; and its nature consists in providing a box or receptacle with an inclined chute or partition, with which a door or stop comes in contact, so as to form an upper and lower compartment, communicating with each other; in providing a latch or catch for holding the stop in position when required; and in providing a rod or stem so arranged as to operate the holding-catch by the closing of the lid.

In the drawings, A represents the box or receptacle; B, the inclined chute or partition; C, the stop or door; D, the locking-latch; E, the disengaging-rod; F, the lid or cover; *a*, the pivot of the latch D; *b*, the opening in which D is located; *c*, the ring or support for the upper end of E.

The receptacle A may be of any desired size, and may be made of wood or other suitable material. The inclined chute B may be made of wood or of wire fabric, so as to form a screen, or of other suitable material, and extends from the top of the box or receptacle toward the bottom, leaving a space between its lower end and the end and bottom of the box, as shown in Fig. 1.

The door or stop C is pivoted or hinged to the sides of the box A, as shown at *c'*, or is hinged in any other suitable manner, and, as shown, its lower end comes in contact with the lower end of the partition or chute B, so that when the flap or stop C is hanging perpendicular, or nearly so, it will be in contact with the chute, against which it is held by the engagement of the inner end of the pivoted latch or lever D with the face of the stop, which catch D is pivoted by the rod or pin *a* in the opening *b*, suitably formed in the side of the box A, and is to be so arranged as to operate to hold the stop C against the chute B when the lid of the receptacle is open, but leave it free to swing or move away therefrom when the lid F is closed, which operation is automatically performed in the form of device shown, by means of the rod or stem E, the lower end of which is connected with the outer end of the lever or catch D, and its upper end passes through the ring or support *c*, and projects above the top of the box or receptacle A when the lid is open and the lever or catch D is holding the stop C in contact with the chute or partition B. The lid F, which may be of any suitable material and construction, hinged to the box in any suitable manner to allow its free end to engage with the projecting end of E, acts, when shut down or closed, by striking the end of E to operate the catch D.

The door or stop C might be arranged to come in contact with the upper face of the incline B at some point on such face other than the end thereof, in which case the lever or catch D may be lengthened so as to engage with and operate the stop; or a catch might be arranged to engage with each side of the flap or stop and hold it in place, such catches being suitably located and pivoted in the sides of the box A for this purpose, and operated by rods similar to the rods E, or in some other suitable manner.

The stop C may be made in two sections, the upper section being stationary and secured to the sides of the box, and the lower section being hinged thereto so as to swing; or such stop might be arranged to slide vertically up and down in suitable grooves or guideways, the inner end of the lever or catch D being secured thereto, and operating to raise and lower the stop.

In use, the material to be operated upon is deposited in the box or receptacle above the incline B, the lid F being opened for this purpose, and is held in this upper compartment by reason of the stop C being in contact with the inclined chute or partition B. As the lid F is closed, it will strike the end of the rod E, depressing the rod and the outer end of the

lever or catch D, disengaging the inner end of the lever or catch from its engagement with the stop C, when a swinging stop is used, so that the material contained in the upper compartment will open the stop and pass into the lower compartment.

By this arrangement the material can be deposited in the box or receptacle in such manner as to prevent the small particles from being blown around; for when deposited in the lower compartment, as above described, the receptacle will be closed, and none of the material can then escape into the air.

The lower compartment of the box or receptacle is to be provided with suitable closed openings to remove the contents, and with screening or sifting devices arranged therein for separating the particles; but as such openings and screens may be of any of the well-known forms and arrangements, they are neither shown nor described.

The essential feature of my invention consists in the employment of a stop or door to prevent the material from descending to the lower compartment until the box or receptacle is closed, and, preferably, this stop is arranged so as to operate automatically on pins c' to allow the material to escape from the upper to the lower compartment as the lid is closed.

Other devices than the lock D and its operating-rod E, either operated by the lid or some other means, might be used to open the stop or door C.

What I claim as new, and desire to secure by Letters Patent, is—

The box A, provided with the inclined chute or partition B, flap or stop C, and retaining-catch D, in combination with the rod E and cover F, substantially as and for the purposes specified.

JOHN C. SCALES.

Witnesses:
O. W. BOND,
H. F. BRUNS.