

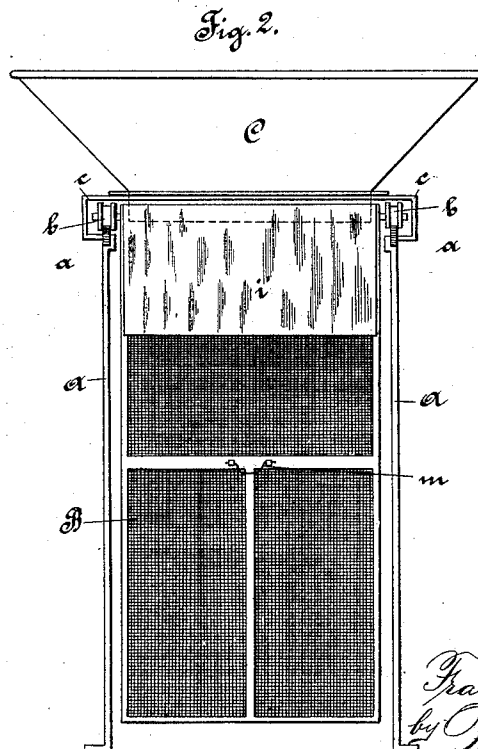
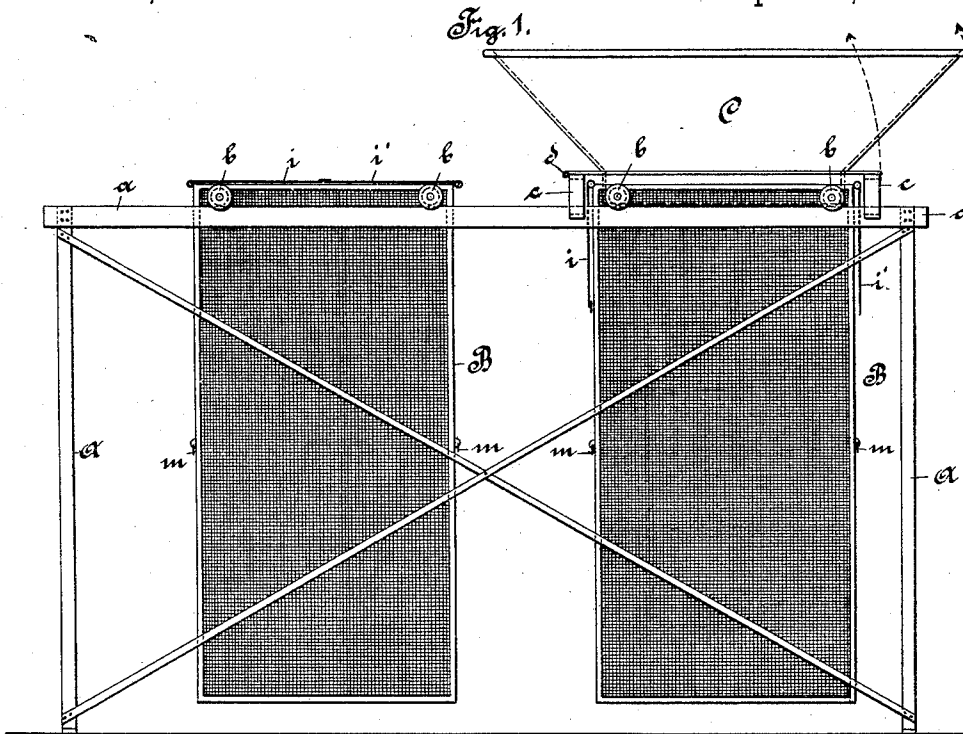
(No Model.)

2 Sheets—Sheet 1.

F. J. STEINWALD.
DUST AND ASH RECEPTACLE.

No. 473,561.

Patented Apr. 26, 1892.



Witnesses:

W. Wolf
H. G. Hummer

Inventor:

Franz J. Steinwald,
by Wm. E. Souther
attorney

(No Model.)

2 Sheets—Sheet 2.

F. J. STEINWALD.
DUST AND ASH RECEPTACLE.

No. 473,561.

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Fig. 3.

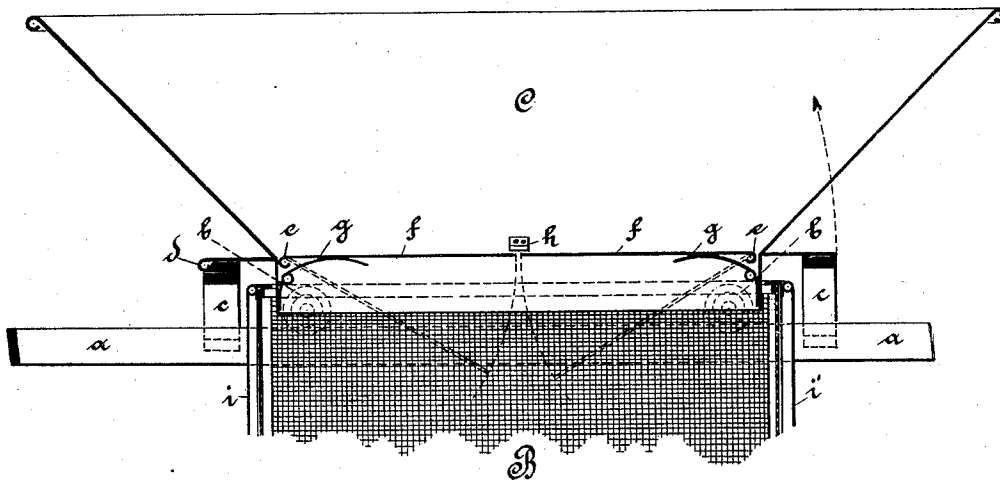


Fig. 4.

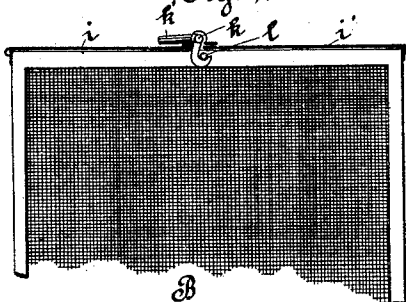
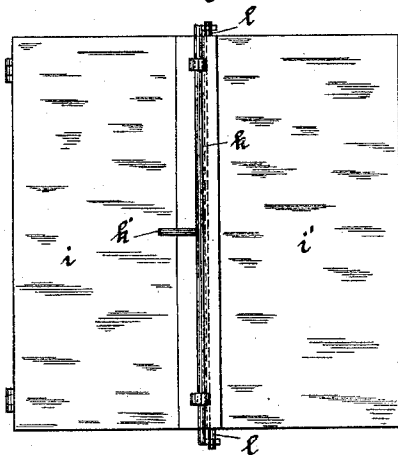


Fig. 5.



Witnesses:

At Test
Hugo Ammer

Inventor:

Franz J. Steinwald,
by Wm. C. Boulter,
his attorney

UNITED STATES PATENT OFFICE.

FRANZ JOSEF STEINWALD, OF DRESDEN, GERMANY.

DUST AND ASH RECEPTACLE.

SPECIFICATION forming part of Letters Patent No. 473,561, dated April 26, 1892.

Application filed September 2, 1891. Serial No. 404,579. (No model.)

To all whom it may concern:

Be it known that I, FRANZ JOSEF STEINWALD, a subject of the King of Saxony, residing at Dresden, in the German Empire, have invented certain new and useful Improvements in Dust and Ash Receptacles, of which the following is a full, clear, and exact description.

My invention has relation to receptacles for dust, ashes, garbage, and the like, and among the objects sought to be attained are, first, to provide a device of this class which will be simple and cheap in construction; secondly, to provide such a device which is adapted to receive refuse, dust, ashes, &c., and be conveniently transported to the point at which said refuse, &c., is to be deposited, thus insuring cleanliness and avoiding danger to health caused by escaping dust, deleterious odors, and the like, and, finally, to provide convenient means whereby the receptacles may be readily removed when full and empty ones put into place for receiving the material; and with the above-recited objects in view the invention consists in the construction, arrangement, and combinations of parts, as hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended.

In the accompanying drawings, Figure 1 is a side view, and Fig. 2 an end view, of the dust-bin arrangement. Fig. 3 is a section illustrating the arrangement of the hopper; and Figs. 4 and 5 are detail views of what is considered a particularly serviceable closing device for the improved portable dust-bins.

A, Figs. 1 and 2, is the frame-work or cage provided with rails *aa*, upon which by means of rollers or casters *bb* the dust-bins B may be moved from end to end. The funnel-shaped hopper is supported by two bent rods or bars *cc*, so connected with the rails *aa* that the rollers *bb* may pass the joints smoothly. (See Fig. 2.) One of these bent rods *c* carries the hinges *d*, Figs. 1 and 3, upon which swings the hopper C, so that it may be turned back while a filled dust-bin is removed or a fresh one inserted instead. Within the hopper C are hinged or pivoted at *ee* flaps or wings *f* *f*, (see Fig. 3,) which springs *gg* constantly maintain against a stop or projection *h*. The neck of the funnel-shaped hopper reaches into

the open bin B, Fig. 3, so that while this bin is in use the said flaps *f* *f* constitute its lids. When ashes or refuse is thrown into the hopper, its combined impact and weight forces these flaps or doors open; but as soon as it passes the springs *gg* close the flaps, as before. When one bin is full, the hopper C is partly swung round and the bin is withdrawn and closed.

For closing the bins I prefer to use the arrangement shown in Figs. 4 and 5. To one of the hinged lids *i*, overlapping and keeping down the other *i'*, is pivoted a rod *k*, which, when the handle *k'* is depressed, engages its hook-shaped ends with the pins *l*, provided on the bin B.

As regards the construction of the dust-bins B, it may be mentioned that any suitable material—such as thin sheet-iron—may be employed for the purpose. The following is, however, the construction preferred: A frame is first constructed of angle-iron bars, between which are stretched sheets of wire-gauze with fine closely-set meshes. The wire-gauze first receives a preparatory varnish, which, in conjunction with the ashes, soon fills up the meshes, so that (as has been demonstrated by experience) no passage is afforded to the materials filled in, however fine. The main advantage of dust-bins of this construction is their lightness and comparative strength. For their more convenient handling they are provided with handles *mm*. The size of the frame-work and the number of bins depend upon circumstances. Details of construction may, besides, be modified to suit the requirements of each particular case without departing from the spirit of the invention.

I claim—

1. In a device of the class described, the combination, with a suitable frame-work provided with a hopper and hinged lids or doors closing the bottom of the hopper, of a receptacle supported by said frame-work and adapted to be moved or slid upon the latter so as to occupy a position beneath the hopper, the receptacle being also adapted to be removed from said frame-work, said hinged lids or doors adapted to open downwardly within the receptacle and to automatically close in the manner described, for the purpose specified.

2. In a device of the class described, the

combination, with a suitable frame-work provided with a hopper, of a receptacle adapted to be moved or slid upon said frame-work into a position beneath the hopper and to be removed from said frame-work, as and for the purpose specified.

3. In a device of the class described, the combination, with a suitable frame-work provided with a hopper, of a series of receptacles adapted to be moved or slid upon said frame-work successively into position beneath the hopper and to be removed from the frame-work, as and for the purpose specified.

4. In a device of the class described, the combination, with a suitable frame-work provided with a hopper hinged thereto and adapted to be swung thereupon in the manner described, of a receptacle supported by said frame-work and adapted to be moved or slid

upon the latter so as to occupy a position beneath the hopper and to be removed from the frame when the hopper has been swung upwardly, as and for the purpose specified.

5. In a device of the class described, the combination, with a suitable frame-work provided with a hopper and suitable guide-rails, of a receptacle provided with rollers traveling upon said guide-rails and adapted to occupy a position beneath the hopper, as and for the purpose specified.

In testimony whereof I have hereto set my hand in the presence of the two subscribing witnesses.

FRANZ JOSEF STEINWALD.

Witnesses:

OTTO WOLFF,
HUGO DUMMERY.