S. DANIELLI.

APPARATUS FOR INSTANTANEOUS DISTRIBUTION OF SAWDUST OR DISINFECTING POWDERS, WITH A TILTABLE DUST BIN AND AN AUTOMATIC CLOSING DEVICE FOR THE COVER.

APPLICATION FILED AUG. 7, 1911.

1,018,410. Patented Feb. 27, 1912.

2 SHEETS—SHEET 1.

Fig. 1

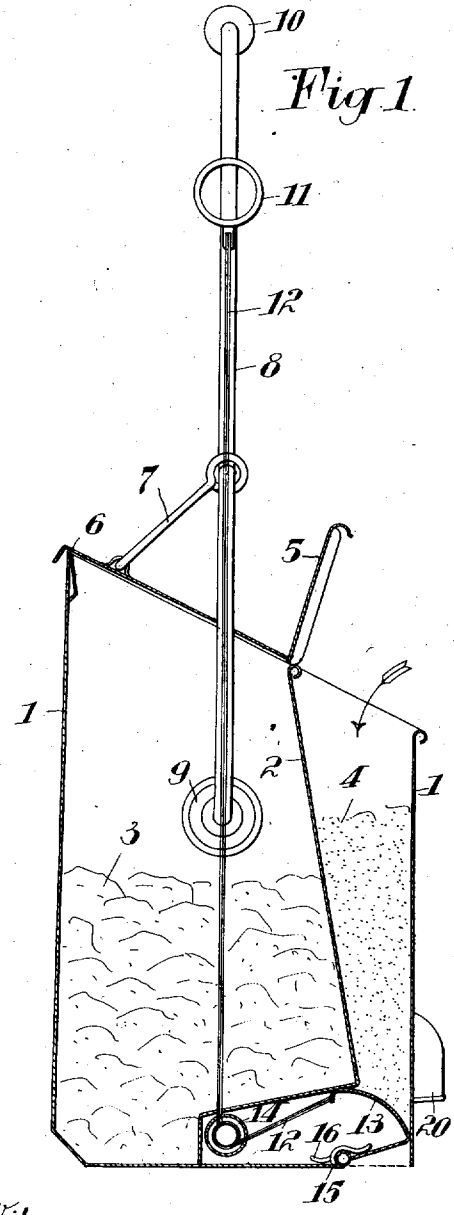

Fig. 2

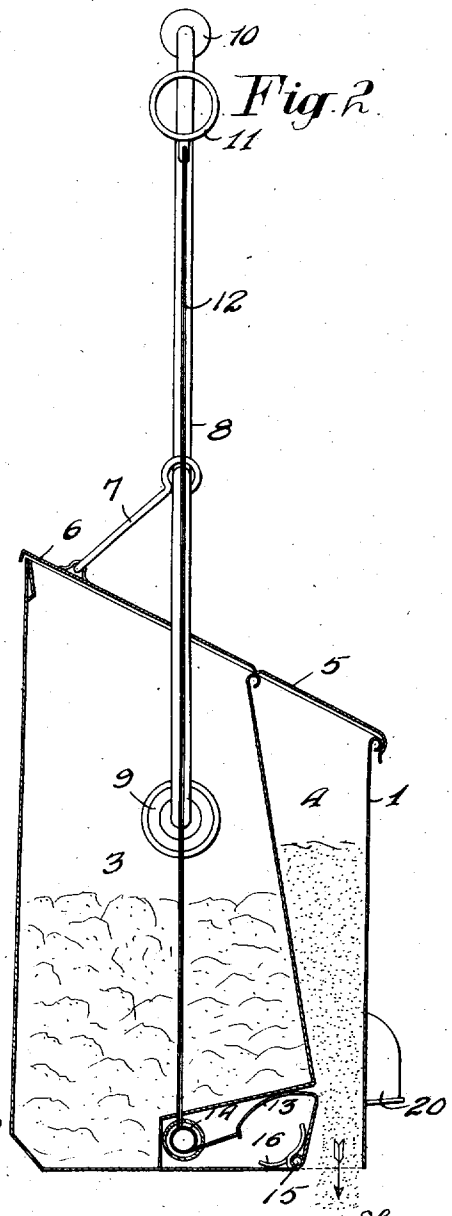

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Fig. 3

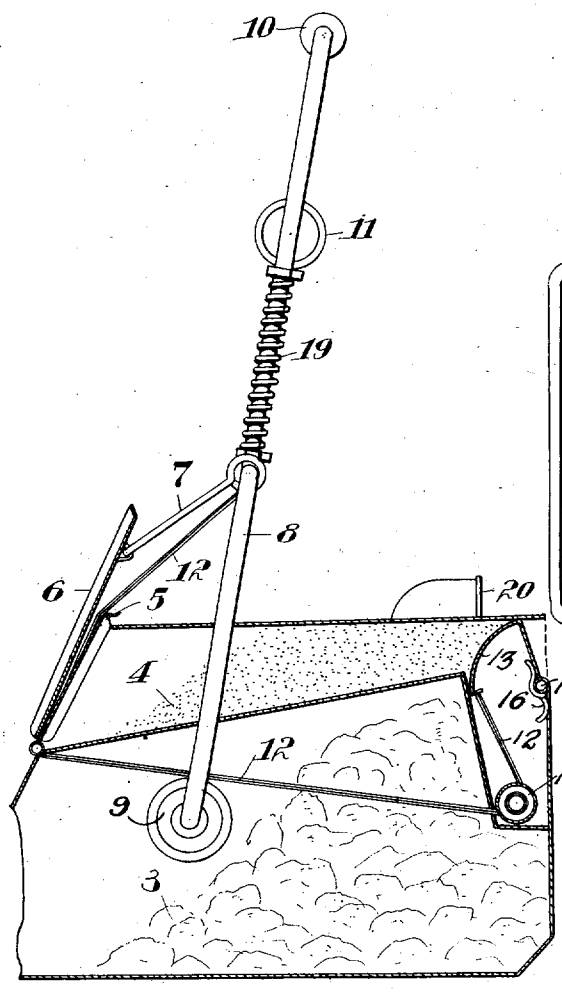
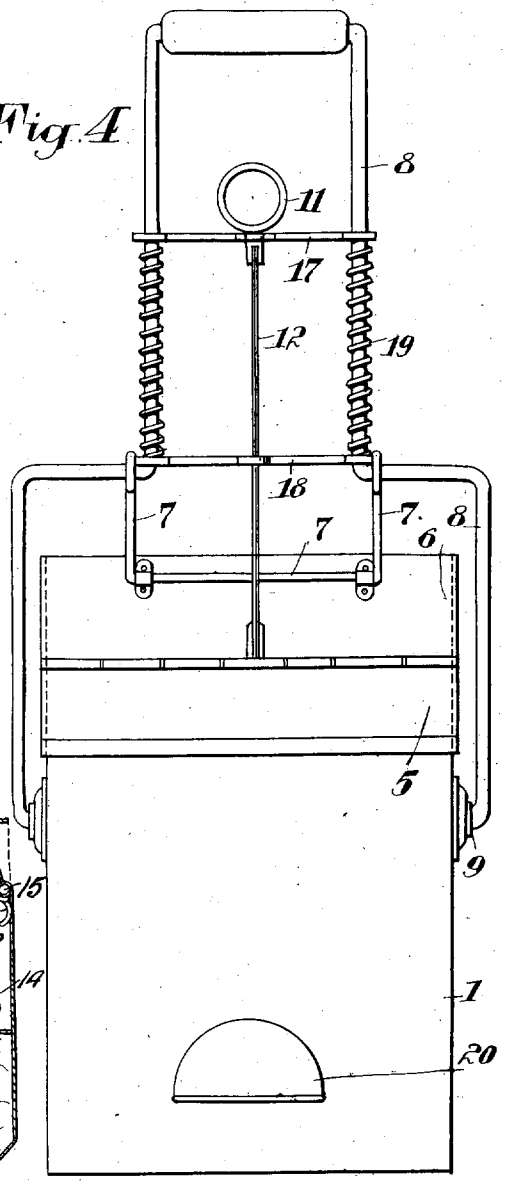


Fig. 4



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APPARATUS FOR INSTANTANEOUS DISTRIBUTION OF SAWDUST OR DISINFECTING-POWDERS, WITH A TILTABLE DUST-BIN AND AN AUTOMATIC CLOSING DEVICE FOR THE COVER.

1,018,410. Specification of Letters Patent. Patented Feb. 27, 1912.

Application filed August 7, 1911. Serial No. 642,901.

To all whom it may concern:

Be it known that I, SALVATORE DANIELLI, a subject of the King of Italy, and resident at Via Raffaelo Sanzio 6, Milan, Italy, have invented certain new and useful improvements in apparatus for instantaneous distribution of sawdust or disinfecting-powders, with a tiltable dust-bin and an automatic closing device for the cover.

My present invention relates to a class of devices which are designed for manually removing the refuse, such as dirt, to a place of disposal.

One object of my invention is to provide a sanitary device which contains separate compartments, one for the distribution of saw-dust, disinfecting powder or the like, contained therein, and the other for the reception of refuse matter.

Further objects of my invention are to provide means for quickly distributing the saw-dust, etc., where it is desired for use, then adapting the device for the reception of the refuse together with the saw-dust, etc., followed by the closing of the receiving receptacle whereby the refuse may be conveyed and disposed of, or retained within the device under sanitary conditions, all of which may be accomplished by means disposed in convenient proximity to a suitable conveying handle of the device.

In the drawings, forming part of this specification:—Figure 1 is a side elevation of the device embodying my invention, parts being shown in section to disclose details of construction. Fig. 2 is a view similar to Fig. 1 showing the disposition of parts for the delivery of saw-dust from the receptacle. Fig. 3 is a view similar to Fig. 1, showing the position of the device for the reception of refuse matter. Fig. 4 is an end elevation of the device.

Similar characters refer to similar parts throughout the views.

A suitable receptacle 1 is divided into two compartments 3 and 4, by a partition 2. The compartment 4 is provided with a hinged cover 5, normally closing and opening for the reception of saw-dust or the like, while the bottom of the receptacle includes a shutter 13, pivotally mounted as at 15 and normally retained in a closed position by the action of a spring 16.

The receptacle is provided with a handle 10 connected thereto through a suitable frame 8, the ends of which frame are pivoted to swing in sockets 9 at each side of the receptacle. The sockets 9 are so positioned with respect to the center of gravity of the receptacle that when the device is lifted by the handle 10, the normal position of the receptacle with respect thereto is as shown in Figs. 1 and 2.

In order to deliver saw-dust or the like from compartment 4, a flexible member 12 is provided, connected to move the pivoted shutter 13 in a counter-direction to that imparted by spring 16. This member 12 is trained over an idler 14 and extends through guides 17 and 18 into close proximity with the handle 10. It is here provided with a ring 11 to facilitate operation, such ring normaly resting on the guide 17 which is movably mounted upon the frame 8. Expansion springs 19 are interposed between guides 17 and 18, which normally draw the member 12 taut, such springs, however, having less power than spring 16 so that the shutter 13 will not respond to action of the former.

The compartment 3 is closed by means of a pivoted lid 6 which is in a closed position when the receptacle is in a normal position. Such position of the lid is insured by means of links 7 connecting the cover 6 and frame 8, the links further serving the purpose of automatically opening the lid when the device is tilted as shown in Fig. 3. In this position of the device, the compartment 3 is in readiness for the reception of waste matter.

It will be noted that in a tilted condition of the receptacle, the member 12 is so positioned as to bind against the cover 5 and securely close the same, the spring 19 shows a guide 17 permitting such positioning of the member 12.

A handle 20 may be provided to assist in tilting the receptacle, or such may be accomplished by positioning the handle at an angle to the receptacle, and directed downwardly toward the compartment 3, whereupon, with a slight effort, the receptacle may be manually thrown over to a position shown in Fig. 3.

The operation of the device is as follows:—The device having been conveyed to the place of dirt or refuse matter, saw-dust

or disinfecting powder is emitted thereon by actuation of the shutter 13 through the ring 11 and coacting parts, the device is then tilted as shown in Fig. 3, whereupon the compartment 3 is in a position to receive the refuse matter, the door 6 having been opened by the handle as hereinbefore described. The refuse matter may be passed into the compartment 3 by the use of a broom or the like, after which the device is lifted by the handle 10, the door 6 closing and the device conveyed for disposal of the refuse matter or set to one side where it may temporarily remain under sanitary conditions.

I claim:—

1. A combined container for sweeping refuse and cleaning material comprising in combination, a container including separate compartments for refuse and cleaning material, the latter compartment being provided with an opening to the exterior of the container for emission of the contents, and the former compartment being provided with an opening opposite the said opening of said cleaning material compartment, a handle pivoted to said container to normally position said container, with the said opening for emission of cleaning material lowermost, when the device is carried thereby, and a valve device for control of said cleaning material compartment opening.

2. A dust bin comprising in combination a receptacle, a partition wall dividing the said receptacle into a reservoir for dirt and a reservoir for saw dust, a spring controlled valve at the bottom of said reservoir for saw dust, a cover provided at the top part of said reservoir for dirt, a shouldered stirrup pivotally connected with opposite sides of said receptacle and projecting above the said receptacle, a handle provided at the upper part of said stirrup, rod members pivotally connecting the shouldered parts of the said stirrup with the said cover, an actuating ring slidably mounted in the upper part of said stirrup near the said handle, and a tractional member connecting the said actuating ring with the said valve of the reservoir for saw dust, and a fixed emptying handle secured to the rear side of said receptacle, substantially as and for the purpose set forth.

3. A combined container for sweeping refuse and cleaning material comprising in combination, a container including separate compartments for refuse and cleaning material, the latter compartment being provided with an opening to the exterior of the container for emission of the contents, and the former compartment being provided with an opening opposite to the said opening of said cleaning material compartment, a valve for control of the said opening of said cleaning material compartment, a frame operatively connected to said container and provided with a handle portion for transporting the device, and a flexible member operably connected to said valve and extending in close proximity to the said handle portion of said frame structure, whereby the said valve may be actuated at the handle portion through the agency of said flexible member.

4. A combined container for sweeping refuse and cleaning material, comprising in combination, a container including separate compartments for refuse and cleaning material, the latter compartment being provided with an opening to the exterior of the container for emission of the contents, and the former compartment being provided with an opening opposite to the said opening of said cleaning material compartment, a valve for control of the said opening of said cleaning material compartment, means for normally closing said valve, a frame structure operatively connected to said container and provided with a handle portion for transporting the device, and a flexible member operatively connected to said valve and extending in close proximity to the said handle portion of said frame structure, whereby the said valve may be actuated at the handle portion through the agency of said flexible member.

5. A combined container for sweeping refuse and cleaning material comprising in combination, a container including separate compartments for refuse and cleaning material, the latter compartment being provided with an opening to the exterior of the compartment for emission of the contents, and the former compartment being provided with an opening opposite the said opening of said cleaning material compartment, a valve for control of the said opening of said cleaning compartment, a frame structure operatively connected to said container and provided with a handle portion for transporting the device, a flexible member operatively connected to said valve and extending in close proximity to the said handle portion of said frame structure, whereby the said valve may be actuated at the handle portion through the agency of said flexible member, and means for retaining said flexible member taut.

In testimony whereof I have hereunto set my hand in presence of two witnesses.

SALVATORE DANIELLI.

Witnesses:

CHARLES C. BROY,

P DE RAMISON.