Feb. 9, 1926. 1,572,102

W. BRAUNSDORF

MOP CLEANING DEVICE

Filed Oct. 22, 1924 2 Sheets-Sheet 1

Fig. 1.

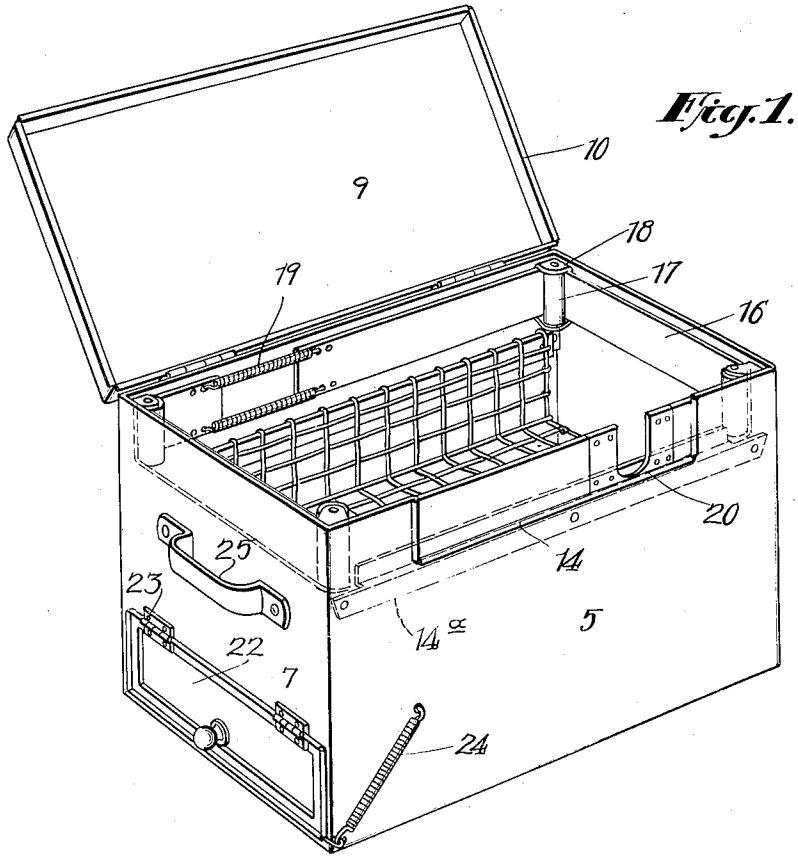
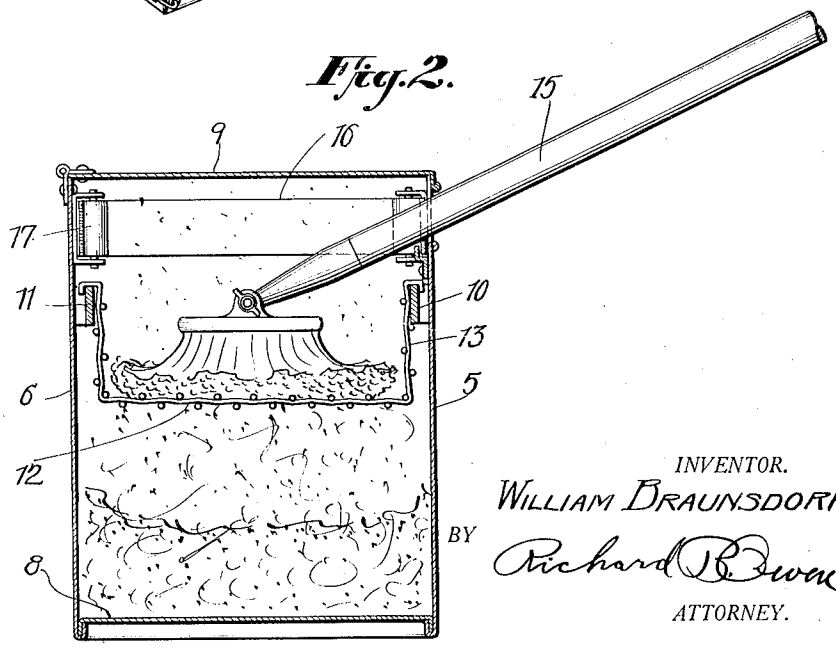


Fig. 2.



INVENTOR.
WILLIAM BRAUNSDORF.
BY Richard B. Brown.
ATTORNEY.

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Fig. 3.

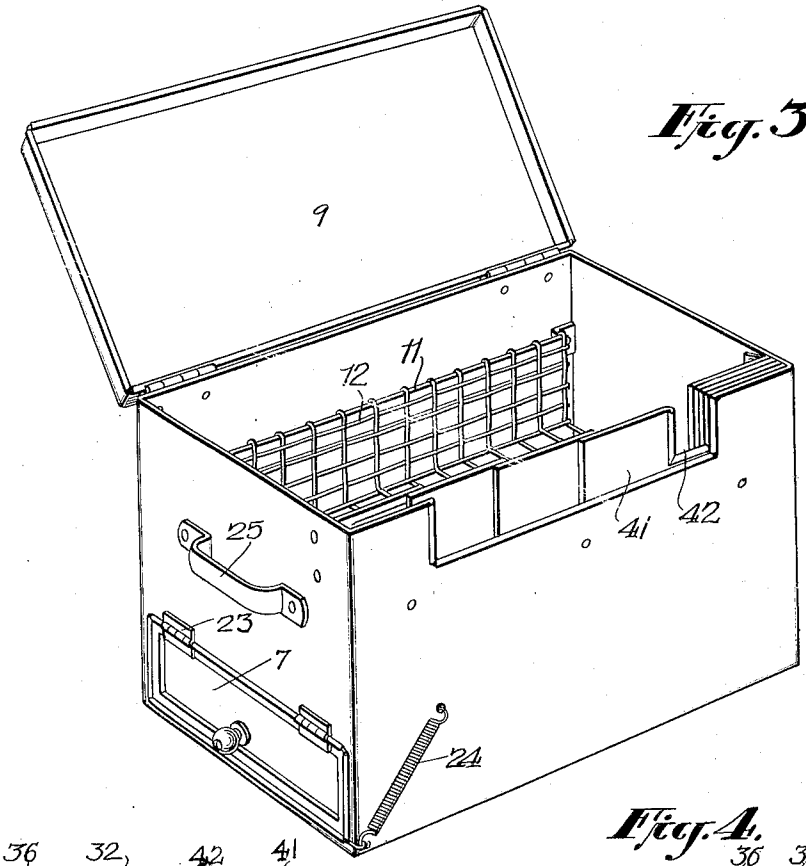


Fig. 4.

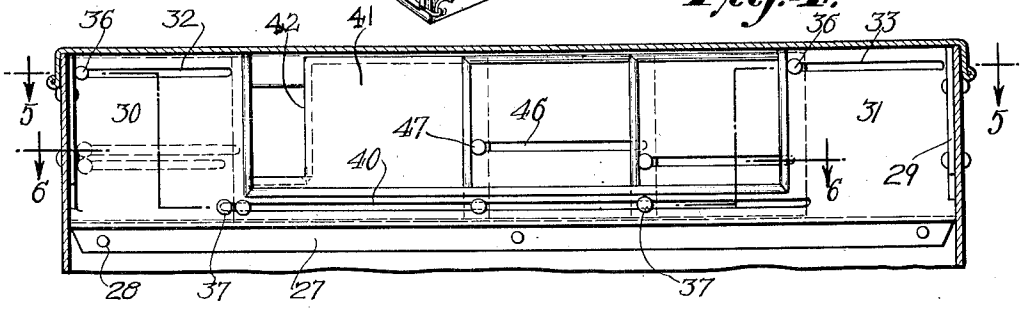


Fig. 5.

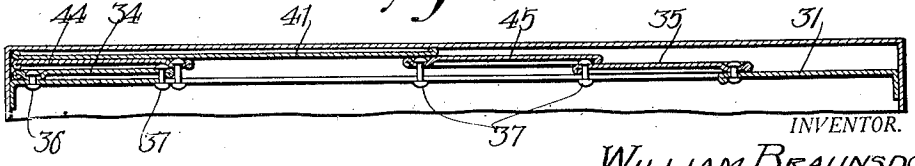
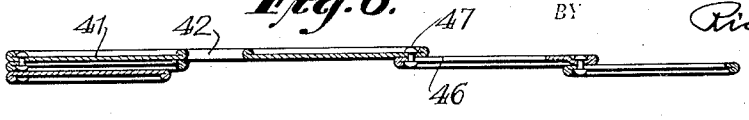


Fig. 6.



INVENTOR.

WILLIAM BRAUNSDORF.

BY Richard Brown

ATTORNEY.

Patented Feb. 9, 1926. 1,572,102

UNITED STATES PATENT OFFICE.

WILLIAM BRAUNSDORF, OF NEW YORK, N. Y.

MOP-CLEANING DEVICE.

Application filed October 22, 1924. Serial No. 745,258.

To all whom it may concern:

Be it known that I, WILLIAM BRAUNSDORF, a citizen of the United States, residing at New York city, in the county of New York and State of New York, have invented certain new and useful Improvements in Mop-Cleaning Devices, of which the following is a specification.

This invention relates to a dust collector or floor mop cleaner, being more particularly directed to a receptacle or container whereby the head of a mop or duster may be enclosed within a container and manipulated so that the dust and dirt may be removed preventing it from passing out into the surrounding air.

One of the objects of my invention is to provide a receptacle or container constructed and arranged so as to permit the head of a mop or duster to be inserted therein so that the mop head or duster head can be manipulated over a foraminous surface so that the dust or dirt may be brushed or scraped from the cleaning element, deposited within the container, thus preventing its passage to the surrounding atmosphere.

A further object of my invention is to provide a container or receptacle of the character above specified, which is extremely simple in construction, easily manufactured and assembled, highly efficient in operation and use, practical, durable, sanitary, adapted to be constructed of inexpensive and light material so that it may be transported with facility and ease so that work may be expedited

I accomplish the above objects and others which will become apparent as the description proceeds and when taken in connection with the accompanying drawings, as illustrative of my invention, reference is had to;

Figure 1 which is a perspective view of one form of the invention.

Figure 2 is a vertical section through the container, showing the position of the mop on the foraminous surface.

Figure 3 is a similar view to Figure 1, showing a modified form of the invention.

Figure 4 is a fragmentary, enlarged sectional view showing the front closure plate or leads for the mop or duster handle.

Figure 5 is a section taken on the line 5—5 of Figure 4.

Figure 6 is a further section taken on the line 6—6 of Figure 4.

Referring now to the drawings wherein like reference characters designate corresponding parts throughout the several views, 5 designates the front wall, the rear wall is designated 6 and 7 the ends and 8 the bottom of the container or receptacle, which may be of any desired shape or size and preferably constructed of light material, whereby it may be easily transported. A hinged closure or cover 9 is provided with a flange 10 and is adapted to close the open top of the receptacle or collector. Attached to the front and rear walls of the container or receptacle I have provided a pair of parallel, longitudinally extending supporting bars 10, 11, to accommodate a foraminous or meshed grating 12 disposed within the container and substantially intermediate the top and bottom thereof. The said meshed material or grating is bent upwardly as at 13 and is supported by the bars 10, 11, in the manner shown by Figure 2 of the drawings. In this manner it will be seen that the grating may be easily removed and replaced in the container when so desired and constitutes a support for the mop or duster head when it is inserted and operated in the manner now to be described. The front wall 5 of the container is partially cut away as indicated at 14, so that the handle 15 of a mop or duster may be manipulated across the surface of the foraminous or meshed grating heretofore referred to.

In order to effect this operation I provide a guide strip or belt 16 trained around a series of rollers 17 supported on corner brackets 18 within the receptacle or container. A guide plate 14ª attached to the inner front side of the container forms a rest for the handle and maintains the belt lose to the wall during the manipulation of the mop and at the same time prevents the dust from flying out of the opening 14. In order to maintain the belt or guide taut, the ends thereof are secured by springs 19 which also limit the movement of the belt, since it is only necessary that it travel across the cut out portion or slot 14 in the front wall 5 of the container. The mop handle 15 is adapted to be retained in a U-shaped cut out or recess 20, so that when the closure 9 is down, the handle 15 may be manipulated from side to side with the belt so that the dust or dirt collected on the mop or duster head is scraped or brushed so that

the dust will fall to the bottom of the container as clearly understood.

In one end of the receptacle or container an outlet door 22 hingedly connected at 23 and retained by a spring 24, permits the dust and dirt to be removed from the bottom of the receptacle from time to time thus concentrating the dust and dirt so as to prevent its passage into the surrounding atmosphere. A transporting handle 25 permits the receptacle to be carried with convenience and ease, thus facilitating the work.

In the form of the invention as shown by Figures 3 to 6 inclusive, the receptacle or container is also provided with a grating as shown by Figures 1 and 2 but instead of a belt guide, the container is provided with a different handle guiding arrangement in the front thereof which operates somewhat on the same principle as that above shown and described. In the latter form of the invention, I provide a plate 27, L-shaped in cross section, which is preferably riveted or secured as at 28 to the front wall and to the ends by brackets 29. The plate 27 is also cut away similar to the front wall of the receptacle and supports a plurality of leaves which operate across the cut out or opening as the handle of the mop or duster is manipulated. The ends 30, 31, of the plate are each provided with slots 32, 33. The end leaves 34, 35, are each provided with two rivets 36, 37, the top rivets sliding in the slots 32 in the ends and the rivets 37 sliding in the slot 40 in the lower portion of the plate 27. A center leaf or slide 41 is provided with a recess 42 in which the handle is adapted to pass so that the mop head or duster may brush against the grating. The said slide 41 is in turn connected to the end slides 34, 35, by the connecting slide 44, 45, which are also provided with slots 46 whereby the connecting rivets 47 of the central slide 41 permit the latter to slide with the same and relative to the end slide. In other words, the slides are so arranged that they may operate from one end to the other and between the cut out portions of the front wall of the receptacle and the slide supporting plate 27, which operations permit the brush head to pass over the grating and thus remove the dirt and dust, which, of course, falls to the bottom of the container. It will be noted that the ends of the slides are crimped so that they will operate efficiently. Of course, the object of the slide and the arrangement thereof is to prevent the passage of any dust or dirt through the front opening of the container or receptacle during the manipulating of the handle backward and forward, while the head of the brush is in contact with the grating within the container. In the same manner as heretofore described, the manipulating of the brush head will cause the articles of dust and dirt to drop through the bottom of the container where it may be removed through the side closure 22.

While I have illustrated and described my invention with some degree of particularity, I realize that in practice various alterations therein may be made. I therefore reserve the right and privilege of changing the form of the details of construction or otherwise altering the arrangement of the correlated parts without departing from the spirit of the invention or the scope of the appended claims.

Having thus described my invention, what I claim as new and desire to secure by United States Letters Patent is:—

1. A dust collector for mops or the like comprising a receptacle having a closure or cover one wall of said receptacle being cut away for the reception of a mop handle when the closure or cover is closed, a foraminous member supported within the receptacle for engaging the surface of a mop whereby the dust or dirt may fall to the bottom of the receptacle and means movable with the mop and handle thereof across the cut away portion of the wall.

2. A dust collector for mops and the like comprising a receptacle having a closure or cover and an opening in the front wall thereof for the reception of a mop handle, means for partly closing said opening while the mop handle is being manipulated within the receptacle and a foraminous member supported within the receptacle whereby the dust or dirt may be removed and fall into the bottom of said receptacle.

3. A dust collector for mops or the like comprising a receptacle having a closure or cover and an opening for the reception of a mop handle, dust or dirt removing means supported within the receptacle for engaging the surface of a mop, means for discharging the dirt from the bottom of the receptacle and means movable with the mop and handle to close said opening, when said handle is being manipulated.

4. A dust collector for mops or the like comprising a receptacle having a closure or cover and an opening in the front wall thereof for the reception of a mop handle, a dust or dirt removing member supported within the interior of the receptacle for engaging the surface of a mop and means movable within the receptacle and across the said opening in the front wall as the handle and mop are manipulated relative to the dust or dirt removing means.

5. A dust collector for mops or the like comprising a receptacle having a front wall opening therein, a hinged cover for said receptacle, a pair of supporting bars and a foraminous element mounted on said bars within the receptacle, a discharge opening and closure therefor adjacent the bottom of the receptacle, and means operable across the

opening in the front wall of said receptacle with a mop handle whereby the latter may be manipulated with a mop across the surface of the foraminous element.

6. A dust collector for mops or the like comprising a closed receptacle having an opening in one wall thereof, a foraminous member supported within the said recpetacle, interconnected slidable members operable across the said opening, one of said interconnected members having an opening for the reception of a mop handle.

7. A dust collector for mops or the like comprising a receptacle having an opening in one wall thereof, a foraminous member supported within the said receptacle, interconnected slidable members operable across the said opening, one of said members having a slot for the reception of a handle and a hinged closure for the receptacle extending partially over the interconnected members.

8. A dust collector for mops or the like comprising a receptacle having an opening in the front wall thereof, a foraminous member mounted within the receptacle, a supporting plate secured to the ends and front wall below the opening, interconnected, slidable members operable across the supporting plate, one of said members having an opening for the reception of a handle.

In testimony whereof I affix my signature.

WILLIAM BRAUNSDORF. [L. S.]